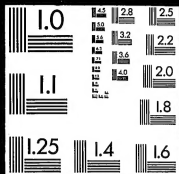


1 2 3 4 5 6 7 8 9 10 11 12  
CENTIMETERS



# 10:1

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# Thomas A. Edison Papers

*A SELECTIVE MICROFILM EDITION*  
*PART V*  
*(1911-1919)*

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**Thomas A. Edison Papers  
at  
Rutgers, The State University of New Jersey  
endorsed by  
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18 June 1981**

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The original documents in this edition are from the archives at the Edison National Historic Site at West Orange, New Jersey.

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**START**

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**NOTEBOOK SERIES  
POCKET NOTEBOOKS**

#### Notebook Series -- Pocket Notebooks

These thirty-five pocket-sized notebooks cover the years 1911-1919. One additional book—PN-10-00-00.2, which was probably used during the summer and fall of 1911—appears in *Thomas A. Edison Papers: A Selective Microfilm Edition, Part IV, reel 178*, and *Thomas A. Edison Papers Digital Edition, NP086*. The books were used by Edison to record ideas about business matters, experiments to be tried, and other tasks to be performed. Some of the entries have been crossed out, and some were subsequently copied into other books.

The seventeen books for 1911-1915 relate to a variety of topics, including primary and storage batteries, disc and cylinder records, cement, and motion pictures. In addition to technical notes and drawings, there are notes about inventions to be patented, songs and recording artists, phonograph and record sales, advertising ideas, legal and patent matters, costs and salaries, and personnel issues. There are also cost estimates for the new chemical plants constructed after the outbreak of World War I, along with notes about projected phenol and benzol sales.

The thirteen books for 1916-1918 pertain primarily to submarine detection experiments and other research performed for the U.S. Navy during World War I, although there are also notes about disc records, batteries, and other topics. Some of the entries in these books were made aboard the USS *Sachem* in Long Island Sound and at the U.S. Naval base in Key West, Florida, where Edison resided during February-April 1918.

The entries in the five books for 1919 relate to projects begun after Edison's return to West Orange in May 1918. Included are notes on improvements in the Lalande primary battery, the processing of lithium ores, the construction of disc record blanks, experiments with chalk telephones, and the development of a starter battery for the Ford automobile.

**Notebook Series -- Pocket Notebooks**  
**Notebook, NP-12-04-27**

This undated pocket notebook was used by Edison, probably during the winter and spring of 1911, to record ideas about business matters, experiments to be tried, and other tasks to be performed. Many of the items have been crossed out. Clean transcriptions of some of the entries in this book can be found in PN-11-05-15. Included are notes relating to storage batteries, record production, recorders and reproducers, and cement. There are also lists of inventions to be patented, as well as lists of musical selections and singers. The business-related entries include notes about prospective employees, advertising, costs, taxes, and film rentals to owners of home projecting kinetoscopes.

Among the numerous Edison employees mentioned in the book are battery experimenters Ralph Arbogast and Thomas D. Greenley; chemists Jonas W. Aylsworth, Ignacy Goldstein, and Ludwig F. (Louis) Ott; master machinist Robert A. Bachman; Frank L. Dyer, president of Thomas A. Edison, Inc., and head of the Legal Dept.; Walter H. Miller, head of the Recording Dept., and phonograph experimenter Alexander N. Pierman. The pages are unnumbered. Approximately 150 pages have been used.

Karel Bondman Pianist 54  
Morningside Ave. E. NY

Patent.

Printing film optically  
" Machine.

New Tray for batteries

Tetra-sphait compound

Mfg. NiOH long drying alkalis -  
Malt with 1 to 3% alcohol.

New composite second lockin mechanism

Lift up horn movement friction lock.

Small Machine lifting horn-feed

Key for holding records

Wooden speaker arm.

Copper inserts in submarine pole pieces.

2 threads on disc 75 Eng. 2 Spl. in ground

W. C. Athorn W. U. 1st Eng. of  
Equipment 6980 Cornell Univ.

Work up substitute for Rubbed  
bulbs now used to keep top cells  
free of liquid

~~Start somebody finding a vault  
for Copper for the ~~which is~~  
more Comel than ~~the~~~~

Angels Serenade, Swanee River  
Robert Adams, Old folks at W. men  
Coming from the Rejo, Old Black Joe  
Nelly Gray, Ave Maria, Went Waving  
Home, Suggest Home, Mass. in Card  
Tasting, tonight where is my Wand  
6 or 7 tonight, Rosary, Nancy Lee  
My Samba, I have sighted Spangly,  
Evening Star, Sunshine, Lady Love  
Last row of summer, when swallows  
howeard fly, Kathleen McCarson  
Jemata, Heads bowed down

See London about next new  
place -

Newspaper Ads average 2<sup>00</sup> incl  
Column Sat Ev Post #81 incl insert  
Munsell 31. Review of R #16. incl  
Life #14. incl -

How about troughs deep battery  
Crates,

Carbonyl wood to tied  
Charcoal sec of islands ROH,

Patent -

Closed front of Phons  
weight to keep fixed arm in -  
Unbreak joint on open air - positioning  
device 10 12 & 14"

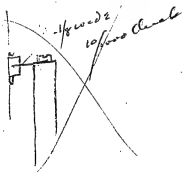
Did RA ever reduce iron plates as  
whole see Halladay

Tell Bachman about  
asphalting in flake room

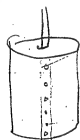
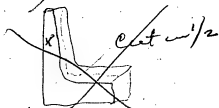
Premix record the heavy  
notes from disc on Cylinder  
at double speed

Pass a splint of flake  
then rolls see what occurs

Connect arm on Dphs 6"  
by link principle



Grind in Monitor with alcohol  
Lamp & Violet in testing record  
filter the violet dry  $\text{SiO}_2$  instead  
Kumpbk -

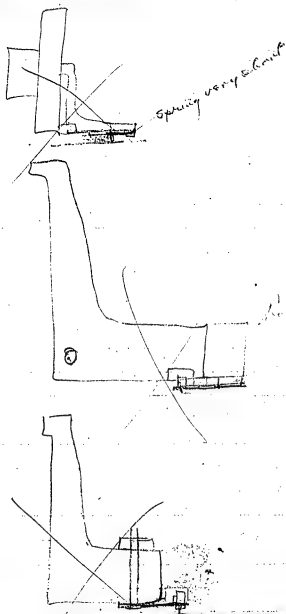


1/4 inch strip  
1/32  
to cut on

See Walter Keller about  
 some very close records  
 being taken here  
 about

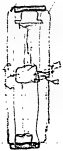
Carnegie components 17  
 Carnegie Machinery 25  
 Central Station 16  
 Comal Vehicle 40  
 Cycle parts in the pub 80  
 Elec Raising 30  
 " Locomot 32  
 Motor Truck 21  
 No 10 Fr engine 27  
 " Motor car 38  
 " Boat 45  
 Automobile 30  
 Motor Locomot 23  
 Motor Print 68  
 RR Elec Eng 38  
 Selling Elec 30  
 Amman Mechanical 30  
 Pacific Motor Boat 22  
 Motor Car 40  
 Southern Electric 20  
 Dubs Trade Exp. 40  
 Profit for RR of elec.  
 Electric car 70  
 motor fixed 24

\$900  
 monthly









Shield recovers  
Stop wear on rollers

Call also with  
attention to high  
points on wheels  
(including adjacent  
grooves on rear part of wheel)  
or its in wheel

Call Walter Miller attention  
to Big wave in 107 pump  
& also that the rollers  
never wear washed clean  
enough & accompanied

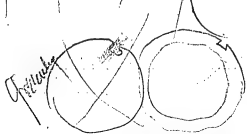
Lansdown - 6 months sales 133,000. at  
2700 each 50 vehicles - 8 to 800 each  
Extra force which are to go. \$2417 month  
for 6 m. \$14800 of 290 per wagon  
Kinsey sales 22,190 Klingworth 9994  
Tyler 2500 - Repeat order 98,316<sup>00</sup>

What about the man  
searching Backfile -

Patent Double disc  
grooved together  
or same shaft one  
disc above the other

Record accompanying  
on one & say of the  
other -

PA 1433 1434 1435 Ext  
presup Cold, date set,



drawn

17  
1/2  
02

CSJ

Dyes - how about  
Corporate Govt Taxes -

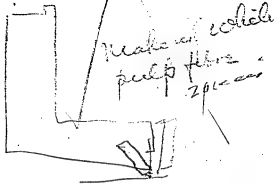


Dia x x both thin & put  
under tension by block  
in Center - ~~Edg. shellack~~

Try shellacking both sides  
of the 130 @ 50 white pulp  
dia -

Soak shellacking paper in  
shellac - also Condensate  
& turn off 40 @ 130  
Center

Use 55/100 shellacking  
back up with 150 Cork  
at Center 50 at edge  
use lac on cork under -  
+ add ~~shellac~~ also use  
1" dia in center of  
Cork -



Use 55/100  
shellacking

Talk to Oscar Bee about our  
 phone apt. seeing people  
 having electric which is  
 killing Camp in - to  
 my & have parties Camp  
 over - Common 10%  
 which is 80. net to them

Write Kahlenburg  
 University Wisconsin  
 for tonight. My name  
 Chemist, Elect. -

Net -

Selling	4916-	off
Shipping	466	
Adm. fee	3130-	2000
	<u>5838</u>	
Administrative fee	14352	

Rent	1378
Bus	246
Tax	103
Bond int	2500
Beach Divot	767
	<u>4944</u>

Shop pay out 1145 of elec  
 1145 daily 27480 month

Editor Academy of  
Political Science

Please give me the  
address of J Pease

Norton, =

~~Make list of cells see  
low end of that helps  
heat~~

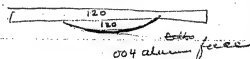
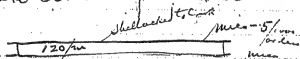
Brown 360 amp 48 cells  
3100 lbs - 96 V

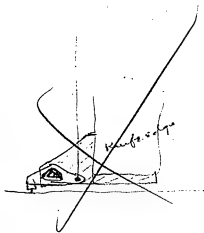
34560 watts  
80 A10-96V 370 amp  
36000 watts

Exide

Plates	9	11	13	15	17	19	21
amp-	112	140	168	196	224	252	280
weight	283 1/2	357	431	504 1/2	578	652	726
Dis vol.	28	35	42	49	56	63	70
Lat 4 1/4	407	505	583	658	742	830	910
33% off	263	334	388	441	494	556	600
with lb	74	76.7	81.9	816	843	843	822.3
Total cost	9510	11900	14380	16650	19000	21400	23850
8 1/2 cells	A4	10280	-A6	15750			

Make Cork dipping tubes





Output per Gram per  
day of 24 hours  
32  $\frac{1}{2}$  lbs. nitrate

Sulphate +  $H_2SO_4$   
in presence of desalors  
Copper

Cu Sulphate + K Boro sulphate  
try  $CuSO_4$  on each of 8  
other salts besides nitrate  
access nitrate

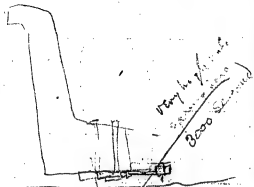
Put nitrate in warm  
on Cu

Dimethyl hydrox also in glycerine  
add glycerine to 2 litre lead  
cells. But nitrate —  
change 3 times simply & put on  
hot

W. desalors have Copper  
Sulphate desalors Copper.  
good = try Cuprous chloride  
pass the gas nitrate tin tin  
Sulphate + Na thio sulphate

Neutral Ferric Sulfate  
is reduced by Copper

~~Copper is a salt in  
solution  
perhaps Ferric chloride  
to give a 5.5 strength  
disposal could be used  
at 8.0 pH~~



It is possible that the  
only way to break high powered  
Sophrans note is to in some  
point in a road where natural  
state is a high potential  
the Sophrans

Cupric chloride & acrylamide  
used in -

Reddish Bismuth of the summer  
may be another phosphate in  
the salt which has plus of  
2 Cu Ca Mg  
Iron Electrolyte used -

Object to 27. 1813  
page 7558. up to 1000 gal  
all substances necessary.

\$4.16 per cell - water -

Cuprous chloride very soluble in  
NaCl, form double salt  
this with Cuprous chloride  
chloride & sulfate Cu

Cuprous chloride & Cu

Column of Live Filings  
Pass water thru  $H_2O$  &  
formed - this blown into  
 $2\frac{1}{2}\%$   $H_2SO_4$  & dilutions  
Copper

$2\frac{1}{2}\%$   $H_2SO_4$  Bichromate  
& then add  $H_2O$   
only  $\frac{1}{2}$  the amount  
 $H_2O_2$  as required in  
this case -

Try  $2\frac{1}{2}\%$   $H_2SO_4$  +  $\frac{1}{2}\%$   $H_2O_2$   
or  $H_2O_2$  -

Try Hypophosphorous acid  
on plate;

Try  $2\frac{1}{2}\%$  + Iodine -

To make  $H_2O_2$  oxygen & ultra  
violet cure by lamp -  
pass air - also try Oxygen  
& pass air into  $2\frac{1}{2}\%$

Formic Sulph certainly dis  
Cu - try again

Copper is not very porous  
any Cu salt in solution  
of Salicylic acid  
by any means -  
albat - try  $H_2SO_4$   
& Salicylic  
dith. K $OH$  & more digests  
with Salicylic in it  
very aromatic oxygen in  
both series does this  
Quinic, Tannic Etc

Ferric Sulfate, Deposition  
Pour out,  $2\frac{1}{2}\%$  H<sub>2</sub>O / amount

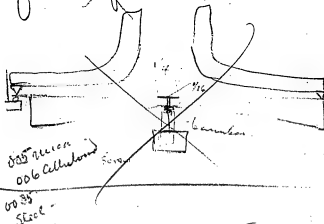
put <sup>15,000</sup> ~~the~~ mechanical No. 4 Fe  
plates, use hard work in  
Hydrogen - use 32 plates  
then roll out to 0035 -  
give to of 1,000

QWA test with  
Fisher H<sub>2</sub> balance Low Cost  
Construction -

Design Brewer of  
battery - A 10 heavy  
terminals ~~at 90 A / 10~~  
Can be put in -

~~Tell Backman about  
dull flake knife -~~

~~Please - how about  
feller for B & Cells~~



~~Get data figure how  
much H<sub>2</sub>O required  
also lb Cu - also  
if can be cleaned by  
fusion - or regenerate  
in any way.~~

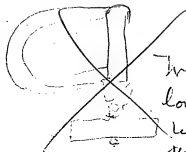


~~ing.  $\frac{1}{2}$  kg Cu dies Cu  
kg Cu die large quantity  
kg D - 20 mic dust to  
of the Cu~~

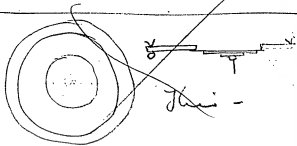
~~The formulae of a Co  
formulae K formulae Nby  
Key of comparison to formulae  
Ks Nby by heat~~

~~Have 24  $3\frac{1}{2}$  cups  
made a 24  $2\frac{1}{2}$  sizes  
Cup made  
to collect & preserve  
Reprints~~

See Harry Miller  
with ~~reprints~~ Miller's ~~reprints~~

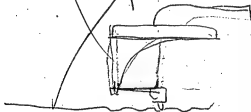


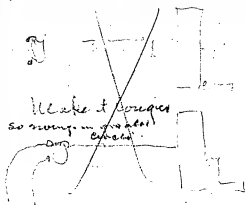
~~Try lat Expt  
larger female  
lets stop  
jumping~~



~~Thin -~~

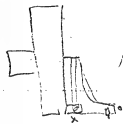
~~Probably for the female metal  
see Camille Book -~~



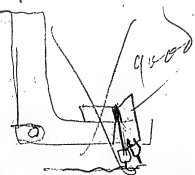


Make it longer  
so nothing is too short  
and adjust

possibly no flattening



Make Aluminum loose  
wood give wave at  
x = a c



Mean dia - ~~5/1600~~ ~~then adjust 10/1000~~ rubber  
then 5 wires ~~2-20 on~~ ~~2-10~~  
5 wires 5 rubber ~~can't~~ then 5 wires  
2-20 on built up 20 to 25/1000  
thick - 1" thick center

Try the brown light Carbonboard

Send for Archer & decide about  
making tail tubes ~~generally~~  
too few below -

Get to 20 lbs/sec new coat  
for how about dipping tanks

also Bachman about ~~peel~~  
in drying app for Hepitogen  
in ~~Walding~~ -  
or how he ~~left~~ fills on  
B4 -

Unless Howard about ~~fills~~  
furnace B4

Holland ~~is~~ about  
filling & ring ball -  
Saul Cost Sheet,

L Ott - ~~how~~ about Quad  
Refrs -

On wellhead ~~off~~ cut off  
gas try & have him get  
from keeper of a  
McLor for adobe,

Weber & al. ~~with~~ don't  
back up but coat surfaces  
& then turn on or grind &  
scrap to a fit on steel -

Bachman about several  
brush cleaning of beam to get  
good plating -

Gas train Boston 1 per  
Grand Central -  
Tulphur Price of Dec 20  
go -

11 anodes used daily -

32  $\frac{1}{2}$  lbs per crane -

28% delivered -

See Scoble & Bachman  
& see what the loss  
is - 107 lbs shy

House Metal  
 Dyes - about 1/2 oz up all the Rays  
 Subscript on vegetables on roughly 1/4 cent  
 for on Salt from their vegetables  
 we to have excellent & handled  
 by Bond of the Co. in Salt Dept,  
 or by ourselves than the distribution  
 or otherwise -

	Yours
Vannell	
Wagon Repair	14.50
Horse "	25.00
Harness "	9.00
Repair wagon	50.00
Shooring	30.00
Repairs harness	9.00
Slabbing	216.00
Veterinary	6.00
Other	780.00

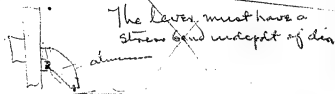
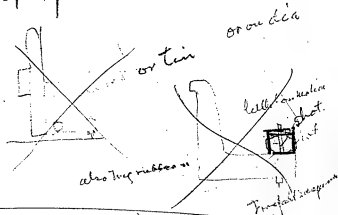
6 wagons

1142

4 1/2 miles furtheral Customers  
 60 deliveries daily  
 average total travel daily 15 miles

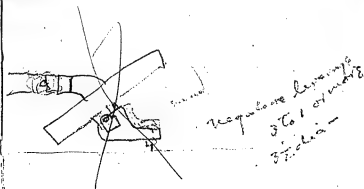
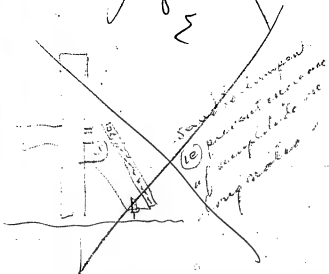
Try glass on Speaker  
 tube with diamond -

Try 2 points napher both on  
 spring -



Strengthen wooden  
 lever mechanically on the shaft  
 after think of two lever bands if  
 too much -

~~Walter Reed right over  
to Dimitri Smirnoff  
Hotel Ryshchak  
& have been come over  
using - is under control  
in Europe -~~



~~Try Cuprous Chloride + KCl~~

~~Try MnSO<sub>4</sub> + HCl only  
" " + pers. dichromate~~

~~test presante for gold~~

~~Done (use of pers. chromate  
then on lot for gold  
if not above 10)~~

~~Chromic~~

~~Reduction Cell some  
flake compound 20 30  
+ 50% more area of  
porous back to my  
start - think 3/4 mly beds  
under table - <sup>good</sup> <sup>no</sup> <sup>if</sup> <sup>smaller</sup> <sup>size</sup>~~

~~Get 2 or 3 lbs of Copper  
precipitate from Dallas Co  
from Reagen N64  
see if can make it good  
for bellows bellows & blow  
muck N64 503 use it -  
also if it can't be used to  
make N64 - 5th by vacuum  
on Coude N64 503 - <sup>at</sup> <sup>table</sup> stop  
using N64 bottles - Disc of~~

~~See what parts of  
Mr. Locker's work make look  
for to cheaper -~~

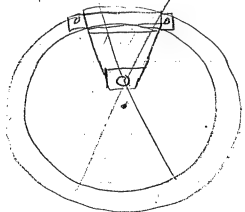
~~Why not use the drum  
from shaft. Then canvas  
Reg beams - steel bowl  
on frame -  
Why not slow drum down  
by a Res. with solution  
lost sling -~~

~~See if can use full  
sized flake - 1/2 lbs -~~

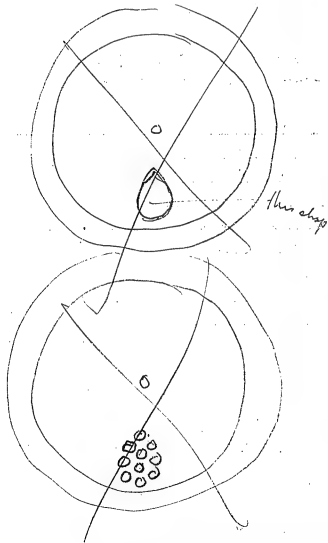
~~See Holland & P. Schumert abt  
pouring out after 3 days  
the gelatin from one  
cell to the other through a  
rapid filter - or a compound  
jet with forward + E  
cell after <sup>from</sup> <sup>into</sup> <sup>it</sup>  
+ run out of one filter~~

~~Will the alk. gas one  
used often & be fairly  
cheap? <sup>then</sup> <sup>not</sup>  
Expensive mix only~~

Diapno - 130/1000 white pulp  
 soaked ETO + shells - do paraffin,  
 ditto melted Rosin, ditto Tetralene  
 Dark lighter board soaked same  
 ditto white blotting paper -  
 " Cloth + shells  
 powdered Cork + powdered Lac  
 pressed to shape in moulds  
 ditto pith -



Try this + no weights. This will  
 lighten + do away with some  
 weight - giving the arm +  
 make deep in time will all come



Tell Pirmann he is running his  
recording stations 3 or 4 times  
too fast -

fix up No. 10 with cork

Opt. test 8 18. 24 - Explodes  
by wire at bottom - middle stop  
see destructive effect - also  
at what point in day does  
the gas get explosive

Smith-Hair<sup>2</sup> A+ made with  
dark marks at seams - go on  
test.

See if Galahad<sup>2</sup> repeats the  
big bursts of  $1/2$  or  $1\frac{1}{2}$  %  
Cobalt metal -

Notice Nord<sup>2</sup> exploded on  
the test not obvious  
due to long time in leave

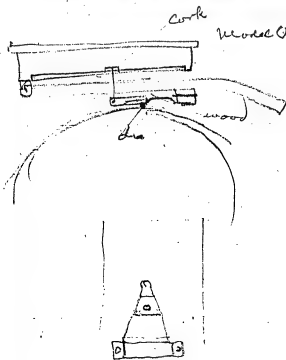
Try the longer turn of a record  
what would hold on one  
New speaker & see if it  
holds - ask Pirmann if he used  
the same V.C. speaker with all.

test 5003-4  $\times$  the 2 Cobalt 1%  
without light -

- Patent need see for lines
- " Big phos & light
  - " Composit<sup>2</sup> second & process
  - 2 ~~more Ni 2%~~ - little Cobalt in 3
  - " Cu<sup>2</sup> H<sub>2</sub> Reagent
  - " Gas in Cobalt walls -
  - " Antimony  $1/2$  & wholly  
with oil for all but to start

See Mallory about turning over  
Current from Mushing &  
whale house prop to be  
done at Slawatsville my  
Expense -





Goldstein - takes some very  
 green put in 5% NaOH  
 also 10 & 21 - closed  
 box - dry no hole, ~~etc~~  
 then wash - see how long  
 takes to dry - Run down

~~Pierman. Pines - longer about  
 part to horn - wood. lower for  
 knife - double diaphragm -  
 paper pulp - larger dia  
 2"~~

~~Harry Fox up the stock the  
 JCE drawing -~~

~~Ask Dew about that  
 Research report on  
 Beak the~~

~~Louis det / Dry Tollen  
 for redefining nearly dry paper  
 also as a condition for  
 Beak the~~

WW -



~~Refers to  
 some other~~

group 3 with 3.5 milg  
of 75/1000  
dills 3 milg ~~Regy<sup>thm</sup>~~  
dills 2 1/2 milg

Tell Walter Miller about  
Operasingers or get his  
Machine - y plan to  
get experience

Plus - what about  
Reclifier + mfg 1/2 doz

See Durand abt Will  
show prospect -

Murilla Copse - JWS Resin  
Hornell High Int. train + heat -  
Pitel = Murilla Copse  
+ oxide, nitride + heat,

Legal Dept make accurate  
drawing of parts showing  
coverage & penetrative  
Contract

give 2 specimens of  
Nickel to Legal Dept.

Tell JWS about -  
oil stain blue

try new disc Spahr on Victor <sup>1000000</sup>



also at 1000000



Dyes about that ~~Petter~~ to  
the Norfolk man was  
he sent it

get big Aluminum alloys  
Especially Aluminum  
Magnesium. 30 May 70  
Al - nearly as hard as  
tool steel -

Louis Oth - work with  
Lithium Sal ditto Barium Oth  
Zinc + Ni Electrodes etc.  
of fine metal in solution  
for cell

Try make Ni Oth<sub>2</sub> by using  
dry NaOH + Chloride Ni  
anode - Nitrate, etc.  
Acetate,

Try Gold leaf + Cu Cl<sub>2</sub> + HCl 450g  
or NaCl solution -  
Get another marker

Try dis Cu by Oth<sub>2</sub> acid  
Hot,

Try formaldehyde & used on  
lubricating oils & burning oils  
& other things - get solid  
products - resins, etc

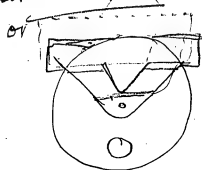
Goldstein says of our selected  
Monsie Seal is good solvent  
for Cellulose - ~~etc~~

Goldstein - Fredrup only  
No. 2 is not alkaline  
Matter - also useless  
rather organic in nature  
No. 2 is not dry  
slow.

Rubbers should be a good  
co-solvent for iron in  
~~some~~ ~~possibly~~ ~~probably~~  
superheated, possibly steam

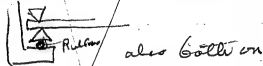
Water for pocket Cobaltum  
& use req.

~~Don't know~~  
Woods Nitrocellulose get it  
just out.



to brace to make edge track  
more in the center -

Try 2 Knives Edges - also  
2 Knives Edges one on rubber



Rubbers - also  
Cook in rubber  
packed on thin paper to  
form ring or collar on  
Edge Draper - also Gold on

Blotting paper soaked shellac  
paraffin etc - Rosin -

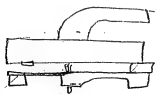
Also board made up of sections  
to 130/1000 but put together  
with frequency shellac  
Rosin, fish glue, etc -

Die

Layer of porous paper pasted on  
to soften sound waves - also cork  
1/16 thick - Chambers allowed  
a little -



Leverage - wood -



Lead -

See of Native Boron Sulphate  
Borax pure can be got in chunks

Greenley - ~~shellac~~ <sup>and iron</sup> Famous Eucalypts  
with by process of <sup>dry</sup> ~~dry~~ over to  
secure over the 50% <sup>2000</sup> of ~~common~~ Sulphate  
+ time later to make fresh ~~with~~  
for  $50 \frac{1}{2}$ ,

~~Shellac~~ ~~dry~~ ~~with~~ ~~lead~~ ~~iron~~ ~~sulphate~~  
by ~~lead~~ ~~dry~~ ~~with~~ ~~lead~~ ~~iron~~ ~~iron~~ ~~iron~~  
then wash it ~~with~~ ~~iron~~ ~~iron~~ ~~iron~~  
redness, dry ~~quartz~~ in rotary  
cylinder - also brush up Sulphate  
with ~~with~~ ~~with~~ ~~with~~ ~~with~~ ~~with~~ ~~with~~  
slight ~~with~~ ~~with~~ ~~with~~ ~~with~~ ~~with~~ ~~with~~  
particles, send to ~~with~~ ~~with~~ ~~with~~ ~~with~~  
reduce ~~with~~

CS53

A new method to investigate presence  
of H<sub>2</sub> over Fe which once given  
green & of an ammonia  
found out if N in the ~~Fe~~ H<sub>2</sub>  
gives N<sub>2</sub> or what impurity  
beside N must be in the Fe

Goldstein Ca carbonate amount  
H<sub>2</sub> to reduce lb of Iron to  
Metal -

See if high density well deposit  
Nitrates is in fact powder so  
does not adhere in the case to make  
Batteries worse - perhaps from  
a Nitrate Sal or other acid  
it can be got rid of, & fine  
also with large quantity of  
a foreign salt in Sal beds  
a Soda Salt,

off

Organic salts of iron when ignited  
and contact with ~~Fe~~ metallic iron  
& some ferrous ox - must be a  
valuable acid, acids which goes  
up O<sub>2</sub> <sup>or NO<sub>2</sub></sup> ferrous, acid like  
Carbonic which contains O more  
possibly give ferrous ferrous,  
try active,

ferrous ox is obtained by  
igniting to red heat ferrous  
Sulphate with 1/2 part  
Salt peter & persulphate -  
Chlorine Sulphate Chlorine

Goldstein Precip No. 10, wash  
nearly free. Sulphate, then add  
H<sub>2</sub>SO<sub>4</sub> to give heavy  
loading wet & blow dry  
1 H<sub>2</sub>O  
dries twice the quantity  
Na<sub>2</sub>CO<sub>3</sub>.

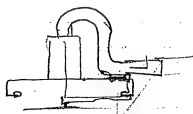
Adapt Soft Spks to Victor  
+ use our design -

Go for Arkow to send over a  
16 inch thick by 2 1/2" -  
Let him use a good ~~spiral~~ <sup>spiral</sup> word  
face to let the ~~case~~ <sup>case</sup> be as wide  
Send for Rogers & talk  
over totals ~~By~~ <sup>By</sup> gun

Have Scull send over the  
detail Cost Jimmy says  
that his memory seems to  
be poor & he better keep  
daily memos - go for him -



Try Knife Edge  
Opposite to usual thin  
w/ dia don't land jump  
w/ aht so much ~~down~~ <sup>down</sup> in arm



Done

Piston marks on air  
spks for disk -

See Hudson find if Reble  
has used up old Copper plates  
at Silver Lake -

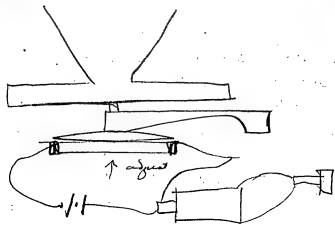
See that spang plates equal  
is made -

Perhaps Tellurium in quantity in  
KOH, deposit as  $\frac{1}{2}$  on neg plate  
See -

~~Cell~~ = preliminary, some  
 wood to red pit in  
 several woods & bring  
 to 500 or 700 - then  
 put in 21% on heater  
 for long test. see they  
 are flexible - do some  
 long stems & only  
 browned also higher  
 - also under press heated steam  
 to Carbonize or brown &  
 form to shape

Also use ~~Neoprene~~ malacca  
 Carbonize 600 or so - ditto. Condit  
 use - Hard Rubber powder  
 also Benzyl Sulfate -

When stakes ends loaded  
 samples or ok make up  
 enough for a cell to drop  
 test strength rubber also  
 test each piece separately



Telepic + high vis wire  
 Cover  $\frac{1}{2}$  in  $\frac{1}{2}$  / 1000 movement.

~~Dyer - Why not organize a film Co  
 run it for 2 years sealed tanks for  
 small town scope of the Hall taking it  
 up + giving them water or weak -  
 use mail for films -~~



Spongy flat or black on inside  
Cover of Cell to continuously  
stop gases see how long  
lasts - pH

put arm & dia in model  
under tension by forcing  
Cork in -

Raise Anderson  
Salary \$5. week -

tell Buchanan to call  
do nothing about  
renewable why  
get new process  
no announcement

patent new Copper dressing  
process -

Use 1/2 thin steel plate  
holes in part Carbide on  
4 pins making it one piece  
& flat & solid -

ditto Asphalt Woodgap  
& an oxide, as cheap  
base 1/2 thick one  
side one side -

See what Clyde doing  
pat made of perhaps  
Can heat from outside -

Chrysler Keep close  
my hat to 2 weeks  
to see if Chrysler don't  
order -

~~Harry up 13 1/2 bottles~~

~~also better bottles  
Relax from 108000  
also to also here to  
make for an hour~~

~~Send Program  
Records to  
San Francisco~~

~~Records to  
Make copies~~

~~Prod. Act. make 1/2 day  
Records to~~

~~NO. 333 record 23  
Moulde Christa Amstutz~~

~~2 Reg tubes wet with  
3% KOH, heat on hot plate  
to blacken then on cool~~

~~dill 2% Lill 1% -  
Closed bottles~~

~~in drums put in insert so when  
sheet ok - drive it + it records  
bearing plate to cut sheet~~

~~Patent Accutric  
Leap~~

~~Patent nap flake  
Car Eating process~~

Home recording big scheme  
indiv. etc - Use of  
bl. sm. cheap 10c  
white - 2 man Rec.

~~Prevention of The Alchemist Myth  
By Drews,~~

~~Makes of man's job by  
Rebman Co. neg~~

~~Food adulteration by  
Wiley -~~

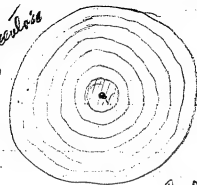
Patent  $\text{CuCl}_2$  + NaCl  
with air & heat to  
work gold ore -

Edison test gold leaf  $\text{CuCl}_2$   
+  $\text{Na}_2\text{SO}_4$ . MgCl. CaCl. BaCl  
SrCl. KCl. ZnCl. MnCl Sulphates

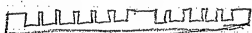
also - Sulphates. FeCl<sub>3</sub>  
Mn Cr Sn for the  $\text{CuCl}_2$   
for patent

Moisten Red iron with Plat  
Chloride + deam by KOH, wash  
redness for test. Fe  
dells Cd, Cu, Sugar,

Photocopy's  
Consider



Cellulose



variations

the thin cellulose on top

2 from pocket's not  
nickel plated -  
2 more dup - 4 tubes  
long test, to see if  
necessary to plate from  
perf films +  
dills 2 vertical bars  
being ground off -

Also film selected & then  
perforated, for 16 tubes  
3 -

also perforated bars,  
not ground but plated  
3 - Long tests -

Probably is that  
formation of Magnesium Hydroxide  
the main part in reaction  
in  $\frac{1}{2}$  of battery &

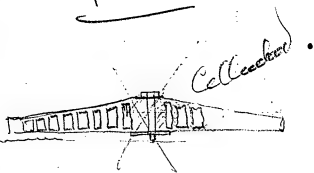
The reason is that long fuel  
diesing comes back the iron  
is that the Carbon is broken  
up -

Probably - ~~Req up a Carby~~  
~~film & get red iron from~~  
RIL + need nice to metal  
by definite amount of  
at solid Hydrocarbon like  
Asphalt, etc  
Req up Redwood app so  
any gas or vapor can  
be used to make  
Steel iron

~~Probably fact~~

Buy from Robinson 25 lbs  
of nails & (sawdust)  
Rubber - Granite & make  
Hard Rubber

Put Melt Pours and oxides  
Keep 4 methods of lake sample  
out from topic to limit a  
Continuum tell MP get too  
high. Use this to mix  
flakes more oxides in  
Balls for ana -



Be sure Thomas knows  
about blowing air thru  
in display solution  
ask how he got along

See with Stokes sampler  
Sample

Make 1/2 doz from plts  
with 1/2 lake 1/2 dump April  
for Cal's tests -

Permanent diamond in  
air Repdcs & play 333 on  
New Records -

Also Diamond in Hyams &  
Chang's (bread to play  
4 min + try 333 new)  
records +

Get blueprints of present  
flake separator see why  
so much fines made  
& how to fix

find something that  
will make Bismuth  
more soluble in  $\text{HCl}$  as plate  
cover - perhaps whole  
thing is plating -

find a very liquid solvent  
for shellac that will not  
delicately break up in presence  
in presence of a peroxide  
will condense the base +  
harden the solvent

Do some Crano work at  
Cement Co. 20% profit

$\text{MnO}_2$  +  $\text{PbO}_2$  both desulphur  
in acids to form diacetates  
This for disc. - Red lead  
Batch of the same from getting  
the same results in  $\text{MnO}_2$   
form - noted new process for

Indiumy  $\text{Sb}_2\text{O}_5$  - disc

~~Adapted with variation of disc~~  
- speak in new concept of properties  
of how it can be adapted  
to disc also for a number

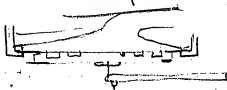
Get Model Cartlow for  
blue record,

Try ~~indiumy~~ method + this  
in presence of Condenser  
+ quality of Condenser  
stuff = ~~stuff~~ don't work

See if Oxide Aluminum  
will when mixed brass  
 $\text{Al}_2\text{O}_3$  condense when hot

Chloride lead disc

Suggest to Dyer he see  
President of Yale + Toronto  
+ other big concerns and  
to management



Calculated to also see with him  
consulted - also paper  
etc for flexing.

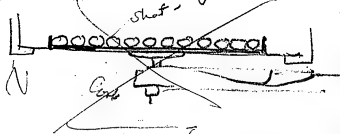
Acetylene will react Cu from  
an ammoniacal sol,  
I in a test tube -  
get my work for plate

Storage battery - Copper  
sponge with electrode  
Notes on wet table etc  
then change - better surface to cover

Carbide slaps Cu - on discharge  
Anode formed O<sub>2</sub> + the carbide  
sulphate =

This basic salt by many different  
other forms of carbide to make

Send for 1 lb short bond to  
Buckhal 5 sizes -



ask Golden  $\frac{1}{2}$  of Brown N. O. B.  
over theoretical in new in  
process, 5 @ 6%

GC Station projector - for local  
light & adjust for percent  
for signalling

~~Goldstein -~~

~~Make test lot slow dry  
:520 with 1% glycerin  
1% glycerol or 1% Tartronic  
acid also 3% glycerol  
3% glycerol  
~~also~~ also 2% sulphate  
Ammonium 3% croceum  
2% Carb gum  
want see if Ni<sup>2+</sup> will  
desolve some Ni to get  
slightly crystalline~~

~~Get some of Goldstein by  
scratch B. M. H. &  
Smith make 1/8 tube  
Cell for test -~~

~~Petit - add waxen Barytes  
to measured x-rays  
ditto Sulphide Acidity  
precipd  
to sluffen~~

~~Cell C. O. C. Dry Neocarb No  
unless Ni<sup>2+</sup> for H<sub>2</sub>O~~

~~Dry Emgraph disc a la  
Crompton as transformer -  
K<sup>+</sup> lamp - Cd + Ni sheet or  
Zn + Ni - also Ni + Ni  
but unequal size electrodes~~

~~See about getting  
Condensate for plate capacitor~~



M. H. small tubes  
of 1/2 inch dia  
of the size of 1 C  
5% for C. C.

Look at Census for Lows  
200 to 1400-

Get that patent for  
Mfg Ni O<sub>2</sub> Electrically

Write Hooker Electrochemical  
Co 40 Wall St New York

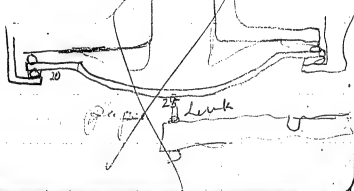
Townsend Cell -  
also Niagara Alkali Co

Electro Refining of Ni  
24 + 26 E 21<sup>st</sup> NY  
offers Chloro for sale 100%  
Write them

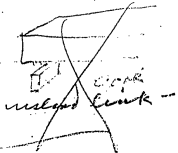
Lows cell for Ni Electrolysis  
with cloth around  
for H<sub>2</sub>O cell -



Link - lower opening out strong



Certain - clear as of  
perforation & caption



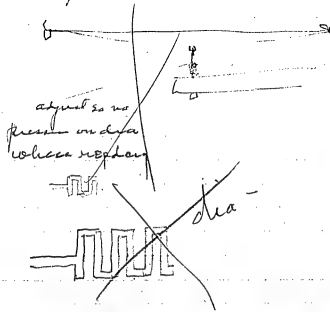
~~Dyn 605 Town in 3H above  
250, 80% q. above. 600 -~~

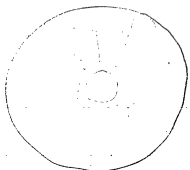
~~10 Towels 2 1/2 weeks -  
10 small 40. then after 80 small 900  
1/4 in. 4000 Towns at least~~

~~Life 100 times 80 ft at 150 & 12 1/2  
1125 each Exhibition~~

~~Town going 2 shows week of 2 reels  
48 cents - week - rent for 2 1/2 weeks  
up charge, might include fees etc +  
4 new records. Each week, in total,  
+ postage -~~

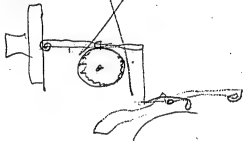
~~Buy film machine & friends + screen  
#75. ~~also~~ new blue material records  
used, mailed. It shows weekly  
last Records on film + if local  
Dealer ~~Adity~~ ~~man~~ + ~~company~~  
or make ~~Notes~~ ~~over~~ agent  
to take orders -  
Common of records after 25 Exhibitions  
obtained.~~





Req up 4 in  $\pm$  1 lb factory  
plate to make daily test,  
8 turn 300 rate -  
1 plate daily -

Pressure fine selected  
1000 threads wire



Wit fresh Resin Telva &  
4x6-1 + condenser disalva  
out Telva by Royal that  
to opt if possible -  
shells ↓

See Dyer down to GCR  
about getting back  
from Guy's factory

Get some washed fines  
from SB Co - press & dry  
+ see if rems in store  
money =  
~~etc~~

Make for experiment  
of varying load on  
weights of long  
drum of green  
used to calibrate drier  
& ready for use ↓

Use in A. 12 Can  $\frac{1}{32}$  blocks  
in A 8 = ~~5~~ <sup>Double</sup> ~~5~~ <sup>5</sup> blocks  
than A 4 - -

Rec'd all ~~of~~ ~~the~~ ~~what~~  
been done to get a  
Camera for 13, you  
should have 3  
for Bronx for 2 + 1 outside

Dup 20 dup Reqs good  
a period of 1 year, by  
drying at 212 for 48 hours  
+ running night air  
especially dup those which  
are hot + now running

Investigate why Rev 72  
not assembled promptly  
+ what is necessary part folder  
tell all it -

Ask Petri what were the bugs  
in Celluloid ~~records~~ -

Dups damaged of air movement  
record - if you use individual  
name should not be used  
but some other word

Ask Abrogast about bug  
dot Cobalt

See Weber dot platten  
on disk shaft small  
Reinforcement of arm

See Aiken ~~of~~ ~~see~~ of  
Records ~~press~~ ~~with~~ a  
platten with Rebs in -  
4 or 5 -

Also about not backing up  
good records yet till 10% find  
Evanilo

Have us proceed by Saphire  
dept if so what to proceed  
men making big things with  
glass -

See what kind of glass  
creamy soft saphires -

Get one of the after  
being found needs  
up here for test,

Wagon Room -

Phone

My friend had all kinds  
Co & what other  
material for patient  
purpose -  
also my watch

See if Weber has an  
auto phone return A.P. Reed  
look, see if

Miss when does it Cal  
new man come

Have Koppo come out  
Salcant

Weber - pre-  
viewing ~~plan~~ must be  
must be ~~worked~~ in

Johnell

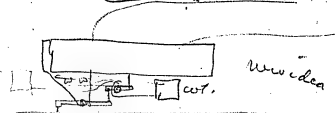


Reg grow in Kott - dissolve  
Nucleic acid in Kott warm  
then wash free of Kott,  
+ make tubes with  
green

Take flake in bottom dish  
on Mt. Callisto use Kott,  
dissolve metallic Alumin  
in it & use flake as  
anode for several hours  
then wash same in a  
cell -

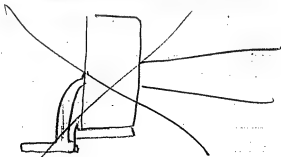
Reg grow in dish on hot plate  
with conc  $K_2SO_4$  + free Kott.  
Keep hot for long time in conc  
solution & then make  
tubes,  
dishes with lots Kott in  
free Kott.

Dye - under assumption  
of Home Kinds negative  
of reaction with Matin  
& P Co so but a few to go ahead  
+ not be troubled, small  
royalty on each machine can  
25¢ to make bargain from



See W. about bad  
Change. He was much  
in Geo. Machine -

See Dye + show him  
Waters work arrange  
things different



See if BS-Condenser will  
 acid & formal - if it is  
 an alkali or acid -  
 if it dissolves rubber

find solvent (melted)  
 for pure rubber

Dyes Parson is selling lots  
 of Maching in England  
 Do we sell many

Golden Tru M<sup>th</sup> sulphite  
 & clubs for plates

Make 1. tubs each of compound  
 in Schumbe - Kott, such as  
 Sulphate Ba 2.8, Phosphate Potassa  
 Chromate Molybdate Uranate  
 Zirconate etc to see if  
 Cant get a per salt  
 to replace Na<sub>2</sub>S<sub>2</sub>O<sub>8</sub>

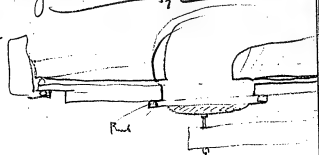
~~Always, prepare various  
 amounts of Ferric with  
 Ferric Sulphate, as long as  
 dark, covered dry & long  
 also expose at various things  
 & give sample precip with  
 NaOH - Also try  
 Chlorate Ferric Ferric  
 & precip with lime  
 Precip at various temp  
 cold & boiling - dry  
 slow & fast also~~

ignite various parts of  
former furnace assembly to  
drive off all the acetone  
in closed still -

Patd Mix Asphalt +  
20% Sulphur floss in  
wells - 2 Gallons +  
then separate coat  
Sulphur - try  
several attempts  
this way

Prep. furnace Sulphur wells  
Carb. No. then ~~fill~~ the  
Carb. in strong ~~water~~ ~~with~~ ~~1000~~  
or by heating it in closed  
vessel

See Goodman about getting  
a Singer sewing machine  
wagon -



This is my dia  
Double Dia

Division which Ceresium  
in Benzol with a red or  
black dye flow and  
viewed also alone  
without dye - to see if point tray



News info

L Moore

Chgo of Instrument Room

Worship 15 men -

Come from Cleveland

brand ~~new~~ large machine

was with Natl Cash

Register + Underland

Hard Rubber went to

with Worship as Toolmaker

as his # Rubber job would  
be to work on -

W J Jewellery

Auto Electricals

Chicago - April

Supt. (pro-oudy)

with William (see)

was inspector of

gold forgeries, 15 yrs

High type man

Give Johnell the Reflector  
that came off Newark  
Main Lamp - also get  
one of the Roller pen lamps  
with reflector, have one in  
house -

Battery Co start Complaint  
or defect took all  
troubles outside

Frank Sagar,  
National Cash Register  
Had Chgo Tool room  
once 105 men left  
went Yale & Iowa  
Men to Chicago  
Now back with  
National Cash  
Reg

See Walter Kessler at  
once ~~Walter~~ in his  
labory ~~room~~

Change a cell fully then  
raise the thermostat & let  
it warm to my 100 fahr  
& then discharge

~~ditto~~ ditto Oxygen

ditto put in KOH with stirring  
 $H_2O_2$  -

Is it safe to let battery or rubber  
that makes by cell go  
lower than this -

in old taking place  
is bottom stop get  
Balls -

Paint <sup>(2)</sup> tubes with a solution  
of Benzoin <sup>1</sup> so it sticks to  
tubes, to take care of the  
hydrogen on changing  
discharge wires out

Put linen cloth with  
cloth around the tube to  
keep away hydrogen

Will H in KOH 21 2 to reduce  
 $H_2O_2$  if so can put outside tube  
with a cross & they will  
accumulate on clay  
get  $H_2O_2$  &  $H_2O$  - collect  
will take care of H,

Something to increase  
solubility of  $H_2O_2$  in KOH  
would be good ~~if~~ ~~of~~  
of a plate or tube in  
solution

also ~~try~~ ~~try~~ ~~try~~ ~~try~~ ~~try~~  
the highest with Cobalt

See Weber about his  
inspections, nearly  
every thing ~~was~~ got as  
defecting ~~and~~ how  
about Ludwig Kungs -  
How about Chief Inspector  
to be held responsible -

Possibly  $H_2O_2$  formed  
in that hot water  $NO_2$   
reaches column point  
then  $H_2O_2$  formed & prevents  
further oxidation of  $NO_2$ .  
It prevents, also  $Hg^{2+}$  &  $Cl^-$   
which causes amalgams  
Cobalt may do same

Walter Miller - to his  
friends - probably if  
he uses rubber tubes it  
acts as a barrier from ~~the~~ ~~atmosphere~~

Run a test without  
blackwork ~~was~~ ~~at~~ ~~high~~ ~~speed~~

Write program  
to price the tools  
Rogers list -

Harvey was the man  
with the black pad  
Records of discipline  
etc.

Program Sept on  
found -

~~Prep. = MnO<sub>2</sub> is fused in  
plates & used for electrolysis  
as anode~~

~~Try rolling out very cellulose  
also use cloth, silk or shells  
etc to make diaphragms~~

~~Urbalen. Try Sulphate Cu  
instead of CuCl<sub>2</sub> in flake  
solution~~

~~Try CuCl<sub>2</sub> <sup>also CuSO<sub>4</sub></sup> <sub>MnSO<sub>4</sub></sub> as in  
battery on Neg. Carbon?  
4 liter~~

~~Take Reg. given & heat with  
21R + def. amp. <sup>exp. cards</sup> etc =  
S etc on plate <sup>porcelain</sup>  
dish covered to crystallize~~

~~Goldfish  
Try CuCl<sub>2</sub> & CuSO<sub>4</sub> on  
flake~~

~~also Quantalium run down  
the Ni Cu separation by  
H<sub>2</sub>O<sub>2</sub>~~

~~put a spring from hand  
support with unscrewed  
nutting on rear~~

~~Chambers 2 1/2 oz press  
to feed. try tin <sup>on</sup>~~

~~Make a Register for reg. above  
with up to date things  
paper & Engr. a weight for weight  
also Amal. make 2 dia.  
change as possible on Home~~

2 tubes with seq. Ni mixed  
with very fine. Calant Hydros

also Ni(OH)<sub>2</sub> treated with  
sol of Co Sulphate, then with  
thick wash + drying -  
5% Co part in

Disc Spky - Can use blowers  
spring + thereby increase  
weight, possible w/pt same  
pressure and try this  
to prevent crumbling on  
heavy rates, until 2 oz.

Make an Extra 15/822  
Can keep up del -

~~Full revision put slight  
portion on~~

~~Subsequent  
10/10/22~~

Try 3 gram piece Al<sub>2</sub>O<sub>3</sub>  
free of SiO<sub>2</sub> in a cell  
Sol Kund - + as usual  
Tumble is 10' from the  
- - - - -

~~Free of SiO<sub>2</sub> in  
K Silicate, etc of grain  
is OK with recycling~~

~~Try again - Cell up again  
by washing out all KOH + by  
using Hydros + wash  
and salt - To remove Si  
dillo not with which  
disal on Si -  
Evade with Core~~

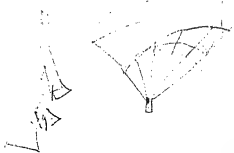
~~To make for use of more of calc. +  
+ a certain powder must be dry and  
+ heat in hydros - by part of~~

Pierman. You know  
with 10 ft brass tube  
Examination here to  
also from the top up



Get the  
around the  
State - so no time

See if principle of an  
Electric dia. Unit be  
applied to a ground



~~Patent new Sulphate Cu  
flake process - 144.503 di. letter  
in which instrument~~

~~Pierman Make of variable  
note horn by using  
variable speed phone  
recording the first horn  
on it & then regular  
speed, like 2 mph record  
hardware~~

~~Pierman make record  
Run out & then get 62.25  
from Horn -~~

Mem. - ~~Check for~~  
~~CR. 1892~~

B. E. Brown  
Popular Bluffs Mo.

Dalton & Adams Co -  
had the ~~St. L. Wash. & Pac. Co.~~  
He is from Elgin Ill - is  
old Cashier reports him

Foramen  
Joe Que, old CO & Cashier  
& Cashier  
Very Capable Foramen  
St. L. with ~~St. L.~~  
Wagner Elec Co  
St. Louis -

Tom Rutland Engineer  
at Yalea ~~St. Louis~~  
had the ~~several~~ ~~cepts~~  
also ~~St. L. man~~ also  
had charge large Dept  
Stamford Ct 35 yrs

J. Harris - Wash. Co.  
Engineer ~~work~~ ~~engineer~~  
of ~~industrial~~ ~~St. L.~~  
is in Newark - ~~36-40 years~~  
~~industrial~~

Ask Walter Miles  
if he has ~~his~~  
his ~~disc~~ ~~records~~  
if cant have one of  
his old records

~~Put~~ put up  $\frac{1}{2}$  phos.  $\frac{1}{2}$   
round brass  $\frac{1}{2}$  set  
Every 3 days -

~~Harry -~~  
Crommgar - American  
to put on pay basis, Prov  
washed 20,000 years Salt Comen  
Crane

~~Test for Bleeding put~~  
Records in box at 100  
Tubs for  $\frac{1}{2}$  hour -

~~Motor for a thorough~~  
Mono Mercury  
No hum, Governor  
Class Junction -  $\frac{1}{2}$  inch  
or high speed old James Smith

~~Winding - my com bars~~

~~Old Black W II 247-OK~~

~~Non plated tubes with~~  
B1 gone bad, without B1 OK  
Theory is B1 OK is reduced to  
 $\frac{1}{2}$  & deposited no metal  
& this discharges the  
Ni - If this is  
Correct, the whole tube may  
& grid should be made of  
Ni or more perfectly  
plated

~~Piercing acc of Can~~  
Olap brals  $\frac{1}{2}$  inch horn &  
Vocal by altering  
position also double  
horn



Put up 2 long tubes  
in Reg. test cells with  
2 glass covers see vol. 1  
10% salt. Run 1/2 liter  
through. Can't get  
a sec. without  $\text{H}_2$  &  $\text{O}_2$   
7 Li & see vol. 1 & 2

Get 25 cc <sup>each</sup> of all grades  
of shells & test for  
Residual, bicarbonates etc.

Look at Reg. tubes &  
see if water has been  
down with tank  
perpendicular.

Preparations of  $\text{H}_2$  &  $\text{O}_2$  gas  
middle - High & volatile  
Try 1 liter 2/3 so on  
also use one horn & see  
how far away & how weak  
it must be to stop boiling

Regenerate tubes, soak  
till neutral, put in  
a salt of something & see  
current & porous cup -  
if use NaCl, Cl formed on  
plate & may clean it  
and reduce by pressure & allow to  
penetrate only then separate & remove  
Make 2 test cells with  
hard rubber also the  
Tap to get rid of ~~gas~~  
metal -

The arm that holds the friction  
feed on governor of Reel  
may have a note. This should  
not be on arm but a side in  
Even when a Motor is used

~~Diagram of 160 Removable  
Recording Square Wave very  
light & hint for waves on  
vibrant~~

Also may be ~~leave (long)~~  
in turning off records  
There is a hum from high  
speed & this affects the  
lenses for a call -  
This will be shown  
by light speaking & eye  
knife

Tell Walter Miller when  
time short & don't feel  
track it out, Andrew Kent  
tell

Square disc then get a book  
found mechanically as each is  
removable -



cover

on back give name -

disc round but fastened in album  
see if Mandrels have wavy in

Rock on disc should have  
first teeth possible as  
lot lower Collet called

~~Wiken~~ Make 3 or 4  
123-#04 thin -

Try the 2 ~~specimen~~ records  
on a Motor from vibrations  
unlike of the Clockwork  
Reflex -

Dry oil block 246 in  
Fehvalce

Tell Walter Miller  
about Black record  
way

Take bad cell wash out  
KOH, then put in Conc  
NaCl, put current on  
amp for 10 seconds, then  
wash out - + put in  
KOH from Reg -

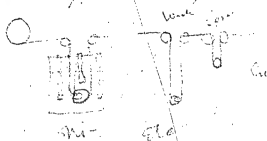
Same but Na fluoride

Tell Braden several times  
don't ground system a better  
drawing of steel head pipe  
Pencil sketch -  
Use get cell Cu wound  
for the plate since CP -

Deep 10x11. 2 hours Apr 27  
Draw jar for small battery  
Anderson

Dry Cu 504 of CuCl<sub>2</sub> on paper  
also Molybdenum CuCl<sub>2</sub> on paper  
if it is available  
Try also organic base with CuCl<sub>2</sub> to  
dissolve paper instead of HCl

Plate ~~with~~ Copper band in  
base, put many on with plate



Heavy  
Wolfe and the police  
on Florida & also House  
in Park

RA Make some  $\frac{1}{2}$   
with 1 3 & 5% Cobalt  
in it from sulphuric

Greenly plate  $\frac{1}{2}$   
pieces 6 sets with  
thick Cobalt -  
dillo & tubes

Run  $\frac{1}{2}$  with 2 High  
Tubes - also with  
2 Co plated tubes

Get that thing is  
Copper changed in  
Sphero

See Dyer next to keeper  
for lawson night assembly

If trouble is due to too rough  
Dross surface with  $\frac{1}{8}$  inch  
Cells use 2 grids of tubes  
logically to one row

Good way to insulate Nickel  
plated parts from liquid  
for instance grid & plate  
pieces in to oxidizing surface by  
very intense flame  
Make test case of geometry  
stopped from oxidizing surface  
of No. 1 My 11

Think the gas from shells  
is due to the gas in the shells  
Havos X Ept on a way of  
getting it out, <sup>filling up filter 150</sup>  
~~the shells~~ <sup>300 will not</sup>  
<sup>be used in the case</sup>  
<sup>of shells</sup>

While Lee, p. 11. 4  
ask that one of the  
people come out when  
watched 1000 lb. <sup>get points purp.</sup>  
<sup>for heavy operation of gas</sup>  
<sup>used for industrial purposes</sup>

Will have next in it also  
if so covered pure, <sup>filling way</sup>  
if got under way out  
scj

See if much wax in that  
Red Trumpet Lee 4%

Tell Peter & Ott that if they  
bag their gas they can keep Lee  
Milled with a few lower things  
at the bottom then now transfer  
low bubbles of all radiations  
lower must be made up by  
a higher height bottom  
also a cover over it,

See Baden get Mendel  
Trax - 2nd road, wind  
proof both box

Put up 4 tubes 2nd of  
which P Cowell can  
2 New to learn from  
Hart

Dyes if Lunsden can use  
his means & get into big  
again -

Dyes rectifying of  
Lunsden Co. Co.  
Get Lunsden's equity  
in all of it -

Paint all parts of a test  
cell, tube rings, & pockets  
Haller's with platinum chloride  
& bring to red in hydrogen

2 cells with 1 gm Pt on inside  
in cell  
dillo 2 dillo 3 dillo  
5

2 cells with 1 gm Mn hypox  
2 " " 3 " "  
2 " " 5 " "

Gravelly plate all parts  
Rings, tube grid & wire &  
parts with Pt on it &  
work hydrogen, 2 cells

2 cells, 1 gm Zn on, 1 Pt on  
2 " 2 " Zn on 2 "  
2 " 3 " 3 "  
2 " 5 " 5 "

Get on oxide parts - Ox a strip  
for tube then clean inside & make  
tube Ox rings Ox Pt block in glass  
also Ox all inside clean at  
Crompton de Fringh for 4 to 6  
test cells (small)

Take A4. B. cells. old one  
that will not come up  
put in 5 grams KOH and 5 grams  
Seems wants some impurity  
in KOH, to work better

Cells has 150 cc per tube &  
big cell only 12 cc per tube  
Therefore there must be something  
in the 150 cc to make 1 tube  
ok but lacks enough in 12 cc  
or B. OH has 12 times less liquid  
to dissolve in outside.

Use B2 cells & depend the space  
by making cell narrower no  
filler except hole opening -  
Sp. cell 25 of them for  
working by why small cc of KOH  
is sufficient by B1 -

Aiken - ~~JWA~~ foil  
instead of ~~plating~~ paper  
How about backing up carbon  
matels -

When Lamp Co. is on course  
bring in Green to talk over  
substitute for Nearest.

Aiken or JWA How many  
times have they pressed one  
more, if not many they  
should keep it until it  
shows limit.

JWA - suggest newspapers.  
Paper Machine for recording

Arney. a. JWA. a. a.  
sheet of Mipalloy Laminated  
plate No. 002, then reduce  
to Cu work & strip.

JWA - Sheridan by spraying  
Muller Zintz etc on  
Copper backing

QWA - Vac or det metal run in  
car between

QWA - Swage to ~~put~~ on steel  
hardens plate, ~~+~~

Look at East iron plate Micro

QWA - The Car produce Bi -  
then, when alloy sheet put on  
about up fusible alloy made  
+ d. 2 others will.

Analyze the Copper  
then put in foil then heat  
No. 10000000 get copper of  
big + no of ~~sheet~~

QWA - Use 3 or 4 very thin  
foil to make up the 305

Electrolytic Transference  
KOH. No P+N are very small.  
The other very large, this showed  
give differential action -  
Magnesium - also saturated at 1000.  
Also Zn P+N. Try diff strength  
KOH, a diff metal in this  
principle - + 1/2" of  
Bolt, in the KOH.

Make 150 thread small cylinder  
1" longer to get 4 min  
or 1/2" longer & longer dia  
using Diamond etc

Take a standard see  
gover is set 160 then  
Run over 3000 times  
Note every 250 times  
Speed of machine



~~Harry~~ ~~the Edison~~  
~~Group~~ ~~certification~~ ~~for~~  
~~wife~~ ~~of~~ ~~fix~~ ~~it~~ ~~up~~ -

Relax - Estimate Tools.  
& application or Cost  
for 10 20 + 50 weapons  
Newton day -

Reach, what size material  
do you use on big &  
little cartridges in the setting.

~~Schriver~~ ~~Fillerpress~~  
~~Harison~~ 10

Practical No. 101 from subject in  
by NASH containing 5% 50% water. Pa.

Patent Cabinet of formulas process  
" Savory Wash water of Pat.

Edison to ring up ammeter 1/2 meter &  
single eyes pure ni & test  
Emp on ch. radis with def stuff  
in KOT. Also 7/2 strips, second it  
my design. Ni kept -

Try 4-6 & formula on bolts heated  
my gland on meat, allow 4-6 -  
or formula -

Impurities, moisture, much boiled  
heated, heat under pressure to  
Condense oil to rubber &  
my little Bombilla or 7/2 1/2  
to oxide

Bliss <sup>new</sup> ~~new~~ Torrens on Coors  
then my own hull get sleep.  
Think by dropping details  
Pommes & Mutton & Nat.  
collars -

See if can get Coors & Coors  
on & calling Mutton  
where drop in squares is a  
Curling? etc -

Patent way we use Libby's  
" Drum with Insulated  
Ends -

Have we patented way of  
calling of Coors -

As only make ~~some~~ ~~acetic~~  
drawing 008 026 025  
0014 003 - ~~plum~~ ~~be~~ ~~g~~ ~~o~~

Tell G.W. in das  
10 lbs Acetic Cell  
with instructions

Try platin anode - Cathode  
lay paper on + use acetate  
see if acetic + acids attack  
paper, also try acetate used to  
hard deposited & acetic attack  
paper, see if anything dissolves  
same with Nitrate to get  
NO in -  
Could shine Cobalt shell  
this way -

Acetic acid dissolves  
shellac ~~try~~ - OK fine

Condensate by fire for  
ammunition etc for 1 Horse  
Truck - ~~try~~ for wine  
with fine ~~paper~~

Square top for Canal  
Amberley

~~Made a number of papers  
Packed into little boxes  
Leaves, 4 doz. etc. & 10 @ 15  
daphn string connect  
soft,~~

~~Put burst like 1/8 on it,~~

~~Withdraw Anderson's notice  
See Miscellan gets full  
drawings etc. 10 doz. at  
1000 & from 7 doz.~~

One old cell soaked through  
till through in a salt water  
then put in water, or  
use heavy current for several  
min. Recovered  
Francisco's ~~note~~  
Chk. Cd. Sent to field in  
10 mil amp. Et for 2 min -  
then transfer to water

~~Dry lac acid with 240  
bleam up very far then heat under  
pressure~~

~~See if tellurium plates out of  
Re & S.L.~~

~~Dyes start Crocker might  
trade 100 doz. quantity exports  
of Exports ~~to~~ orders of  
shipments like was a  
Accident. & film separated  
So we can see just what  
Excess makes~~

~~Exam E. arrange for Ballam  
Ask Dyer if tellurium is about  
kind of put in there why at  
Wilson & upward control~~

~~How about Patent new  
Ryder & dates on En. (hand)  
C. Sperry & Peter Reed.~~

Telling about lead people  
get their economy by tapping  
Clay - we can do this but  
public cost taxes & own  
costs (hard) license for work -  
Ask Smith see power of monopoly  
Changes - no effect is  
the highest possible economy  
in state in tapping clay  
at other sites

Field trial Ullak base  
substitute iron like 100%  
make Base in many  
per chloride iron oxygens  
~~to dry &~~  
right sec if good field iron

Tuesday ~~Confer~~  
Meeting ~~St. Louisville~~

7 Thursday over 100

get production on light  
Pump & alone

get easy feasible along  
flow out through Co  
make porous material

work up Victor Kuper

2 tubes Ni connected to  
Can but cans made not  
plated + Bi reduced on it  
Drip connected to Iron

2 Tubes Bi 12 1/2% Ni Can  
to can - difficult to fix

get out of ~~iron~~ Ullak  
if possible

Get needles ~~also~~ bamboo  
put box on test for ward  
of the needles.

Paint 2 tubes & grids with  
Fluorine Chloride -  
Neutral Cell Gate -

Grids: 2 tubes @ block  
found tubes, clean inside  
oxidize grid, & put up  
2 cells.

See new small cells get on test.

Paint 2 tubes & grids with  
Tetraacetyl. Test cells -

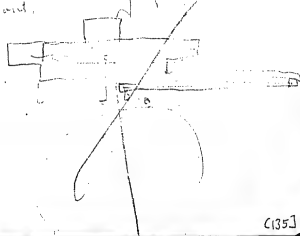
Get new 1/2 inch E plates  
make some single  
plates & single -

New Eplate Medium for 2 weeks  
test on a Comel record  
500 times 1/2 hour,

Show waffles, flukes  
Youngs V. ~~will record~~  
see the ~~shape~~ this respect  
it will be ~~again~~  
Test Youngs record -

KOH, also, in the electrode  
form it tells you Bad.  
Then see if it justifies -

Make new R.G. Eplate  
ann. int.



~~Dyes - present in water  
must be cut & put in  
with present large amounts -~~

~~Preserve~~

~~2635 Wabark~~

~~avg. 3rd floor~~

~~White Field -~~

~~Process for tray~~

~~want wire for~~

~~50 class with~~

~~best take -~~

~~about 1st = E.S. Ball~~

~~garage -~~

Daily <sup>glass</sup> washed tubes put up  
2 A4 for insulation test

use some phos lines -  
fluoride lines, other fluorine  
for cell insulation -

~~Carry tray down side  
in tube~~

~~test all insect by drop~~

~~also all insect P  
salts in tubes -~~

~~Ba Sulphate, Ca sulphate, Ca Sulphate  
phos nitric, Oxidation~~

~~Make Water Milk, Hepatos  
1/2 oz for perovox seconds~~

~~Drop water can with Testrol~~

~~2 cells for test B4~~

~~2 Cells B4 Red <sup>dry separator</sup> (supp) 1/2 cells  
also washed in <sup>dry</sup> garage~~

0911

Paint  $\frac{1}{2}$  inch ~~of~~ ~~the~~ ~~cheapest~~  
for test -

Coat Ni strip by standing it  
in steam ~~of~~ ~~the~~ ~~steam~~  
Then see if ~~coloring~~ it  
Changes it -

Asphalt used in B4 with  
Asphalt in Benzol.

Dye hydrogen ~~deposited~~  
was 2 minutes ~~by~~ ~~phos~~,  
all such as to ~~depos~~ ~~depos~~  
uniform heads -

See Record about ~~the~~ ~~factory~~  
factory -

get lot pure Ni strips &  
use, 50 cc KOH 2 L. & add

2 grams of every variety of  
Chemical ~~run~~ ~~several~~ ~~hours~~  
for judge run in series use  
bottle - stop with Valmet.

Intakes by Antimony of  
Ba Chrom. Molybden  
Sungate Pb Cd Ni Hg  
Fe Ice Rays, Co.

Japanese paper for discs  
Vines instead of chalk.

What is in Eley Copal  
Eley gives a very much  
affected by ~~the~~ ~~oil~~ ~~of~~  
It is as 190°C in  
stands a ~~copy~~ ~~oil~~

$$\begin{array}{r}
446 \\
138 \overline{) 446} \\
\underline{138} \phantom{0} \\
308 \phantom{0} \\
\underline{270} \phantom{0} \\
138
\end{array}$$

$$160 \overline{) 57980} \quad 325$$

130-

$$\begin{array}{r}
385 \\
274 \\
\hline
107
\end{array}$$

$$\begin{array}{r}
35 \\
35 \\
35 \\
35 \\
35 \\
35 \\
35 \\
35 \\
35 \\
35 \\
35 \\
35
\end{array}$$

$$\begin{array}{r}
385 \\
107 \\
\hline
278
\end{array}$$



Spks notes -

2" long wt 10/1000 - bamboo Alaska  
abundance low in soft - timber every  
second soft soft - Has a high part  
at along while some just enough to show  
with the diamonds - 1/2 oz - only - 2 oz of timber  
This Reple is ok for Home  
Same with 2 to 1 Home is nearly  
Low as Pith is 2 oz but 3 oz nearly  
as good as Pith -

Parcel No 919 2 to 1 Parcel 5 From  
880 ft Cornish 10.5 c  
foreign bills 5c sold at 8c

1.35 ft 2 to 1

Expose given to US,  
dillo to light. Test in cell

Feb'y 1880 7220

Labor & material (estimated)	6 52
Traveling Exp	2 35
Selling	68
Shipping	17
Two trucks	05
Widely	50
Hotel & dinner	61
Rent	19
Exp in Jan	.04
Interest	35
Cash etc.	16
	<hr/>
	\$ 11.75

Rec'd 11.00

5/304

5/11/80

~~61 lbs Melaleuca Oil lost in wash  
water per South Crane per  
day 20 lbs  
1000 gal 1100 benzine lost by S.  
Crane in 6 days~~

Feb'y

Remi fixed Shop Exp -

Foreman 2011.

Maintenance Tools 5065

Supplies & Exp 2601

Light Hoop etc 2892

10558

Test Dept

Foreman 100

Wages 589

Maintenance 93

Supplies 84

866

Inspection

Foreman 241

Wages 1,885

Maintenance 81

Supplies 66

2,273

Lab Testing 1175

Rent 1,378

Taxes 103.

Ins 246

Bond int. 2500

17,227 grand Tot  
17,924

Selling

Selling 4,874

Advt 4,684

Exp for Catalogs etc

Maintenance 4,381

6,13939

practically 31,863 fixed

based on 220 assemblies at  
10 441 per cell

3/ 12,000 hours out Cost varied

2.65 a hour 1,76 per cell

248  
 Jerry Cost Gallery

Material	3.93	
Labor	1.63	
Fac Exp. Equip.	3.03	
Billing Equip	10	
Tray complete	31	
Electrolyte	33	
	<u>7.33</u>	
Settings duty at	1.38	
Administration	- 70	
Rent Tax & Insurance	22	
Utilities	39	
Construction	13	
	<u>2.82</u>	12.15

Shipping	76	
Shipping	10	
Insurance	02	
Duty	50	1.38

Rent	16	
Gas	02	
Water	04	
Electric	39	
	<u>74</u>	2.82

Print  
 Price Submarine Cells

Type S 2P (S<sub>2</sub>) up to 20 P.  
 (S<sub>20</sub>) @ 135<sup>00</sup> RWTH 3 hour rate  
 to .9 ↓

S<sub>21</sub> @ 125<sup>00</sup> at 3 hr rate.

N 14 - runs of 17? A size 1/8

Labor put in A8 Cons hour

A 12 pallets @ 110<sup>00</sup> RWTH 3 hr  
 rate

Gravel @ 120<sup>00</sup> 1/2 ton  
 doz labor @ 110<sup>00</sup> RWTH  
 Cobalt @ 110<sup>00</sup> RWTH  
 - 12<sup>00</sup> RWTH

Connect slow B

Cobalt with 1 mi

and tube @ 110<sup>00</sup>

~~Print Data~~

Remembers bad fire Great  
 back by long low dry <sup>dry</sup> <sup>2 weeks</sup> <sup>back</sup>  
 Reg A4) packet 250 small run  
 in small coil around 580 @ 11.00  
 gave at 30 hours at 200 Millamp  
 1200. 1775. 1900 - in original  
 was 2500.

~~Mallory Estimates, 1911~~

1,800,000 Gals -  
 Cost 55¢ 8¢ saving  
 10¢ interest Total 73¢ Gals.  
 Average price of Gals. by 75¢ each  
 obtained, if 500 Mill. of 85¢  
 to 80¢.

Cork paper 006 paper  
 weighs 860 millg - 13 1/8 dia

1800 / 7558 (416  
 42520  
 30630  
 12470

1800  
 17600

**Notebook Series -- Pocket Notebooks**  
**Notebook, PN-11-05-15**

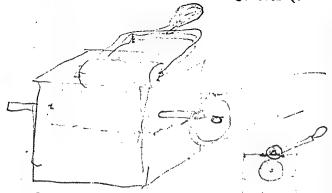
The two dated entries in this pocket notebook are from May and July 1911. The book was used by Edison to record ideas about business matters, experiments to be tried, and other tasks to be performed. Many of the items have been crossed out. Some entries appear to be clean transcriptions of entries from PN-12-04-17. Included are notes relating to battery experiments, chemical additives for Ni(OH)<sub>2</sub> (nickel hydroxide) in batteries, cell regeneration, and new battery models. Also included are entries pertaining to veneers for disc records, talking pictures, and battery-powered trucks manufactured by the Lansden Co. In addition, there are lists of inventions to be patented, data on costs for various materials and parts, and talking points for marketing and promotion. Some of the entries deal with Edison's upcoming trip to Europe, such as obtaining passports for the family and finding out whether a duty had to be paid on cigars. At one point, the inventor reminds himself to "take new memo book to Europe" [probably PN-10-00-00.2 in *Thomas A. Edison Papers: A Selective Microfilm Edition, Part IV*, reel 178, and *Thomas A. Edison Papers Digital Edition*, NP086].

Among the numerous Edison employees mentioned in the book are Edward L. Aiken, assistant superintendent of the Edison Phonograph Works; assistant engineer John R. Anderson, Jr.; chemists Jonas W. Aylsworth and Ignacy Goldstein; master machinist Robert A. Bachman; chief engineer Donald M. Bliss; Frank L. Dyer, president of Thomas A. Edison, Inc., and head of the Legal Dept.; William H. Meadowcroft, Edison's personal assistant; Harry F. Miller, Edison's personal secretary; machinists Sherwood T. (Sam) Moore and Albert F. Wurth; and machinist and longtime Edison associate Frederick P. Ott. The pages are unnumbered. Approximately 150 pages have been used.

May 15 1941 - Jalisco

Greenly = Plate finish with Cabinet  
for 2 test cells - grids also  
use Co 1/2 green -

Polymer - strips in plain Kott  
get Voltage -  
ditto amalgamated " "  
ditto " " in 21K2Li

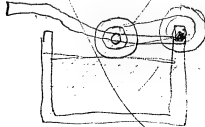


Test Blue record by bringing  
dose up to Record by  
rotating cylinder

NO 11

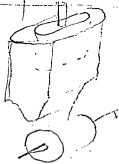
11-05-15

No 2



Dipping -

No 3

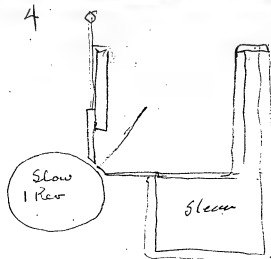


Plunger + part set under handle  
ing of 1/2 inch sq. sheet  
Extra free work for 005 3 or  
4 times around 11 on can



~~Expt 2 Research Off -~~

4



~~Note discs 8" 10 + 12" disc  
sell by weights 3 5 7 1/2~~

~~Ground high carbon steel 3/8 plate  
ground matrix 1/2 5/16~~

~~Japanese Tenshi paper for disc  
Research.~~

~~What is an Ester Copal Ester  
give varnish not attacked KOH.  
+ acids. stands 180°C~~

CSJ

Hi pure chloro, many cells corner  
2 1/2 K 2 Ls + 2 grams ~~2~~ dried material  
in 500s get drops

See Beach about ~~Leach~~ factory

Dyes ~~Hughan~~ ~~delivered~~ - 2 months  
build ~~minerals~~ should be  
done at ~~lab~~

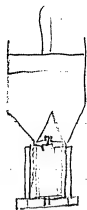
Waste Water Miller 1/2 of  
up date records list ~~records~~  
records

Dyes ~~Leach~~ ~~factory~~ photo -

Write Linnell - E garage 2635  
Water color 3rd floor white  
bldg 100 ~~box~~ ~~piece~~ were de  
a low chg rate. Sub station  
across street -

Try dry Oxalic in Cement so  
water mixed water makes free SiO<sub>2</sub>  
& Ca Oxalate for hard sect. ~~part~~  
also Bisulfate Na - dry powder  
" Neutral Sulfate  
" Oxalate HCl.

No 4



Glucosyl Acetic Lactose Nitrocellulose  
glucosyl acetate Acetocellulose &  
Casein - try Lac & Nitrocellulose  
See if Acetic affects Monlam  
if not can disp -

Phenyl Acetate - unusual solvent  
for such as it dissolves Shellac  
& Resins & Nitrocellulose with  
equal facility.

Acetylene Tetrachloride  
dissolves Shellac & Acetocellulose  
It is general all round  
Solvent & mixes well  
nearly every other  
Solvent, BP 147°

My Shellac & Nitrocellulose  
in Phenyl Acetate -

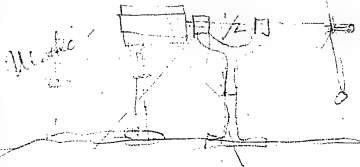
Ormyl formal is best  
Solvent for Nitrocellulose  
Shellac & it dissolves in Ormyl  
So good as formal and does  
not boil

Shellac does in unusual solvent  
& Benzene <sup>with little friction</sup> <sup>quicker than</sup> <sup>BP</sup>  
inflammable ~~is~~ <sup>is</sup>  
dipped ~~in~~ <sup>in</sup> ~~then~~ <sup>then</sup> Burnt off  
~~it~~ as soon as dipped the  
material, this draws off the solvent  
Wet to the lac, all air bubbles  
escape & lac solidifies in  
film of benzene vapor  
Strength  $\approx$  P 338 Nitro Cellulose  
Vol 1

Goldstein Ni, O,  $\frac{1}{2}$  /  $\frac{1}{2}$   
Vanadium Mn Mg Cd Hg  
Fe Cr Sb Te Cu Be  
S Se Te Mo W Paracelsum  
& <sup>moderum</sup> Thoms. Co Ag Si  
51 Zr Ca Sr Ba Erbium  
Indium, Lanthanum, W, Al, Li

Also 520 Nicks & 5 Licks -  
also this with  $\frac{1}{2}$  % Co

Frabell



$\text{Al}_2\text{O}_3$  in  $\text{H}_2\text{O}$ , small change electrodes  
see if any recalcifying —

Test Req  $1/8$ " disk over standard  
K<sub>2</sub>O needs approx 300 times  $1/2$  of  
it —

Paint a test strip with plain  
chloride heat test paper

Experiment on cavity  
favorable @  $\text{Al}_2\text{O}_3$  delays to  
get a pure  $\text{CaF}_2$  or  $\text{CaSO}_4$

Go over to U.S.

Soak out old bad cells put in  
 $\text{NaCl}$  etc reverse ni  $1/2$  hour  
then soak out every trace of  
 $\text{NaCl}$ , then put back on  
to make  $\text{Cl}_2$  for 10 min, then  
soak out. Run Req —  
 $\text{CdCl}_2$  package better than  $\text{Cd}$   
depos.  $\text{Cd}$ ,

Plus tell him about  
concentrations, solids & liquid  
for 1 hour —

Presently make some  
cellulose acetate diagrams  
08 026 010 015 0057.

Patent for various porous  
aggregates sand, fine cement  
& reinforced plaster in  
angles to ~~cast~~ cast  
pumping etc.

Patent way of ~~use~~ use in  
CCC -

Patent Home ~~made~~ made

Patent ~~Drum~~ Drum of cake  
with unsaturated seeds

Patent ~~Refrigerator~~ Refrigerator  
Leak ~~is~~ is

Send data to Baldwin  
Lab works

~~Mines~~

Dyer New ~~Exter~~ Exter  
Gypsum ~~alt~~

Waller Miller (Ore school)  
have 89021 Red seal  
Kohengui - Du Armet,

Depos ~~about~~ about  
new spikes before ~~the~~ the  
work -

19

Vibrato 19 = ~~good~~ good working  
slips belt ~~to~~ to

20 = frame of ~~black~~ blackwork stressed  
three gears & has a vibrating  
time of @ 6-sec

21 = In ~~pressing~~ pressing one groove divides  
the other & it beats against  
the of Rev ~~is~~ is in one turn  
also ~~is~~ is

22 = Record disk moves on  
platform -

23 = The recorder itself has  
ca. 5@6 per sec vibration  
rate,

24 = Vibrals due to record groove  
not dead lines from center,  
5@6 variations from center  
cause ~~displacement~~ to track,  
moss up side + down towards  
center + then across volume  
good -

Air blower ~~at~~ ~~po~~ - inline of track

Repair ~~units~~ + ~~new~~  
micro,

~~Japan or flat Cambusia  
Coburn piece of Corvate~~

~~Condensed Droplets for  
flake - Galcholan Fry~~

2	lubes	2	grams	K1	Total coating
2	tubes	1	gram	K1	first disp element
2	"	1/2	"	K1	in Reg 21 K2Li
2		250	milly	K1	then put in
2		125	"	K1	Reg solution

~~Containing the K1 to get rid of K1 inside -~~

Just send R1 use K1O<sub>3</sub>

Duplicate these using  
only 21K No Li

2 tubes, use KOH 21 2 Li  
which has been electrolyzed  
between large surface  
of Ni-plated sheets to  
remove cadmium -

Drop 2 tubes. The No 04  
being made by precip  
with LiOH.

Drop above waste  
No 04 precip by No 04

Make gal of the KOH  
KOH 21 2 Li - cells  
to get rid of cadmium

- Patent - Concrete furniture - removed etc  
" Spel Wax + No cells  
" Method adding di to cells, forming  
" Form for flake - concrete etc.  
" Regeneration used  
" New holder for new di/c spl  
" New way for platen for spreading discs  
" Home shaving + Big shaving  
" New setting of chains  
" Funnel introduced to one side of  
" Disc drawers - runner +  
" New filler - valves +  
" New C-plate,  
" New 1/2 inch machine  
" New submarine cell.  
" Oil color - climbing for records

~~Patent - use short cells  
that get rid of as soon as  
table in use No 04  
+ KOH or LiOH,~~

Hutch, ~~London~~ usual K66  
Amalgamate part of El. analysis  
K66 Hutch, ~~London~~ K. or  
W. Hutch, ~~London~~ K66

Measure Sulphide in  
K66,

Go over list of records  
with 1st plate or records  
with Michael Hutch  
+ have a meeting & records  
what to do -

See what different local  
New Rapids

Address for whom  
Cheap

See we get 25 lbs  
could do just -

Have Blum record the  
Reef field, amount &  
length & accumulation &  
amount of ~~total~~ El. or  
20 V in each of  
use in practical cases -

Angels scream at Swanee Riv, Roll & stain  
old folks at Home, coming from the eye,  
Old black ice, Ave Maria, West Maying  
Home S Home, Mass. and Ground, Wandering boy  
tonight, Rosary, Nancy Jean, Song that has  
My Sambo, Quarellin, Trovatore  
Emily Star, Tachanay, Lady Lou, Last rose summer  
when Swallow's nose and fly, Nathaniel, How come  
Jennifer, Hearts bowed down  
Come back to Erin - Killary  
Liquid Condensate for bamboo paper  
daphnia heat under press.



~~Vacuum of vacuum~~  
Goldstein Ferric of ammonium state  
by equating at red heat of various sulphates  
with 1/2 the part of light color a  
precipitating -

Holland-stard are good in complaint  
book all troubles of this kind cause  
etc & all returned all troubles,  
Chiles, follows state

Regenerate tubes, soaking out Rott  
thoroughly - put in a solution of sulphur  
Rott, soak out as doubt salt or  
as solvent also use common  
sulfuric, wash out calc. out  
Then put back a liquid & reverse

Put up two old cells which  
have only been soaked out.

~~Heater~~  
X rubbers to stop it from  
banding

~~Beach~~ taking point  
Steam Cars have to be  
built to pull such other  
Electric pulls half all  
streams internal & not  
More Car Wagon can be  
lighter -

~~Over~~  
Moving Pic (Heater) uses  
Oxide with & without  
any, low speed -  
Exchanging system for records

Test Tellurium in cup -  
Bally make T & H & let  
O from P pole decompose it  
so no gas comes from  
battery -

Have put in ~~Lamp~~ a  
other separate amounts due  
us (good) — ~~X~~

Lamps due 4 in box, rent 25¢ +  
expressage per Day — 300 days  
#75. Cost 1175 — + Expressage

Cylinder, 4 in box rent 25¢ + expressage  
daily, 200 days wear,  
#30<sup>ct</sup> Cost, 1<sup>00</sup> Case, rail, +  
Expressage —

See character ~~of~~ figures how  
much SiO<sub>2</sub> wanted per month  
+ order for 600 year —

Watch the ~~the~~ ~~the~~ ~~the~~ ~~the~~  
that is ~~the~~ ~~the~~ ~~the~~ ~~the~~ ~~the~~

Look up a table just a  
man in place of Thomas  
with Kalamang Unwills

Change over a get value of a  
Victor for an exchange operation

Petrol wrench for annual  
pot. — socket wrench valved  
but —

9 jewels for ~~the~~ ~~the~~ ~~the~~ ~~the~~ ~~the~~  
worth abt jewels —

Have the 12" of record  
turns to let the wheel  
plate — ~~X~~

Porous Cup K<sub>2</sub>O, Ni pale  
Coated titanium use it for  
negative for storage battery

Turn up edge ~~of~~ inside to  
allow more ~~width~~ for back

Man go to Meadows  
& note the two ~~loos~~  
are at terminal -

Patrol Tellurium for gas

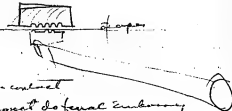
Tubes dotted, dried & wrapped  
by rotating sample truck

Iron pockets ~~detached~~ by  
spray ~~in~~ inside -  
Before loading -

Third part heavy  
plate - Torch -

Barrett - ~~Ad~~ Express

WU  
Teleph. Type write letter of 25 point  
pencil or emboss



possibly make a contact  
& have a magnet defused ~~ending~~  
or perforating

Reproduce <sup>out</sup> Pendulum with  
contact points, released each  
evening + ~~Continue~~ roll  
Tellurium point -

Send Cable to ~~Pro~~gram

Give small ~~Yating~~ sketches to  
Brown -

Dist. Geneva ~~Crux~~ on R1 Ni

New tube, dip 33, then  
transfer to strong R1 +  
plate 1/2 hour 200 Vol amp  
Bookout R1 in Cell - (15)

See How Pithi new 50 lot  
press out,

See How  $3\frac{1}{2}$  unit on Premium  
air cones with

Test gear driven ~~Columbata~~

Test wood floor of  
shop by road below in  
for vibration to get vibration

Harry up down 10 vibrato  
section, ready -

Telephone Bench ~~about~~ becomes  
factory.

Harry bid on 25 1 +  $1\frac{1}{2}$   
Luis! Bernet make bed  
for 100, 4 - n. l. 25 lot,

See Jumble Boxes new lot  
Vehicle, Time,

Tell Harry about Laysden  
Advt so go on record,

Harry A-8 ~~Model~~ A-12

See a Bunker ~~frame~~  
also if ~~brass~~ shell for  
used on 1 1/2 - rad -

find big lot ~~of~~ Cobalt

look up tail cell see  
how it is broken come  
off + if OK make up  
A-4 cell right off -

Smith - make log  $\frac{1}{8}$  A-4  
soon as possible ~~try~~  
25% Rth -

Try K1 on even strip,  
Tell Wally Miller T. 15

See Wally tell him on  
high steep walls the  
flow of the gas turns  
to over should be no  
flow -

Start somebody investigating  
loss of Nickel 21110 parts  
flake -

Look up some very old cells  
- CO & put requirements set in

Try Chl Zinc Sul Zinc BaCl  
ZnCl, requirements -

12 Payon Kenton see Pelton  
Lehr & Anderson for to get  
Pheno to his help but also 2

Harter see model A/S & drawings  
turned over to Bachm to  
start wfg & Henry A 10 & 12  
model & drawings -

Monday big model up  
music room & shows  
Coys separately No 1 3 & 4  
& get drawings -

Go down for hour or so  
to check on disk

Hawk inspect Peter  
new records -

Start Cells (old) Records  
copy run them

Req green dampcut pres  
hydroptic -  
also wet K0H do some  
dry & peroxide

2 tubes - each 33% RWH  
put in R1 + RWH + rim  
1 hour at best clarity

ditto 1/2 hour  
ditto 15 min -

2 Ni strips, high density  
21KZ to side if gas can  
be exploded 1/2 way down  
in liquid by arc

Go down status of light  
reasons becoming more  
more warm detectors -

Depos about 1/2 doz. Ground  
Kubonals for jet lenses  
go out, build (wand).

Asken press a job of  
Yines on slate 1/2 inch  
all how goes, Curt or Wry

Layout the ~~all~~ small cells  
equivalent to 1 long tube  
1, 2 - 4 - 6 - 8 - 10 - 12

Save the regenerating coils  
in bottles to put with  
tubes to use the Current.

Go over to Battery Co. & see  
Grossley & the layout  
for sawing Cu for Ni - also about  
through taking out Cu from Ni  
Hurry needed Concentrate  
drum

See about usual along  
flask Cranes -

See if RWH are right for flask  
& where Current goes to  
85°C 600 mmHg per lb -

Talk to Thomas about  
an idea not keeping through  
liquid movement, getting  
it back out capped that to  
increase surface area

Shows ads and ~~up from ads~~  
Hot strings that means it  
also is some part of what  
Hovers of ~~OK~~ changes  
to chloride

Masonville get del/any  
Coils - Dicks + smaller  
Go across a variety of grades  
get better and ~~smaller~~  
from me - ~~smaller~~ etc,  
from single ~~up on~~ slabs  
also with del/any  
Bakers - etc

Zn Aluminate usual acid or  
alkali, (Gahrts) + X H<sub>2</sub>O Sol. Co.  
with  
Aluminum fluoride any usual  
boiling alkalis

~~Get~~

Get figures Coils, Mering  
Rally & other Mering  
for making the Old Dry  
Process. See if any  
small ~~run~~ rolls can  
run up to by drying  
help - see how trapped dry  
& also if heavy pressure  
over loading set & it  
crushes OK -

J.M. Estlund / Cost  
Crystallized ~~of~~ Calc Re  
using H<sub>2</sub> for ~~it~~ -

Take some of the gross  
made dry process & press  
in heavy glass 3" cakes  
see landing wt -  
Fred Ott -

Goldstein rec'd of 1/2  
Co can be put in  
the Goldstein process  
so can use dry  
process -

Fred Ott, the little  
ratio for Goldstein -  
to make the Ott.

Go to Newark rec'd from  
Charnock - visit Goldlee  
see get prices Klett,  
find out number of days work  
time & if they are really need  
28. Time

My car seems burnt Kubb  
then, ~~delivered~~  
see Sadley Ward Babb  
Supt in New York of mill  
can be put on schedule

See legal dept - ~~patents~~  
on ~~the~~ for ~~the~~ -

Close with Supply  
have his man come  
over prepared to sign  
Contract for Sept 28th  
delivery

test 3/2 of new paper  
on some of the lac  
dope records, plot  
make do -



New vibrating plate  
See that back and present part  
on -

Examine old tubes of some  
old ~~cellulose~~ - ~~cellulose~~  
has ~~cellulose~~

Accept to order  
12 ~~high~~ ~~in~~ ~~Renald~~  
~~in~~ ~~order~~

Notice ~~103~~ ~~old~~  
Paper on ~~Edyke~~ ~~cellulose~~

Quaternary ~~Coar~~ ~~6~~ ~~lbs~~  
Mr. Bennett  $4\%$  ~~in~~  
Green -

Get ~~10~~ ~~inch~~ ~~or~~  
first good ~~amount~~ ~~fall~~  
up to ~~top~~

~~Cycle~~ ~~mechanism~~  
plated ~~Primo~~ ~~Montan~~

See ~~fall~~ ~~of~~ ~~Anderson~~ ~~or~~  
first ~~thing~~ ~~in~~ ~~shape~~ ~~for~~  
the 12 ~~Bygone~~ ~~times~~

Write ~~Simplex~~ ~~not~~ ~~less~~  
than 11 ~~inch~~ ~~clearance~~

Joseph ~~Boxer~~ ~~decline~~

Take ~~some~~ ~~plates~~ ~~get~~ ~~them~~ ~~burned~~  
1 pair 15/100 ~~with~~ 25/100 -

get some more ~~plates~~ do same thing  
Now about ~~plate~~ ~~glass~~ - ~~chilled~~ ~~from~~  
~~Graphite~~ ~~or~~ ~~more~~ ~~vacuum~~ ~~or~~ ~~Evapor~~ ~~oil~~  
Try ~~Carbon~~ ~~oil~~ ~~alone~~  
which the ~~times~~ ~~thick~~ ~~plate~~

Soak regeneration following

K Tartrate - ~~NaCl~~ MgSO<sub>4</sub>  
KOH + KCl - ~~NaCl~~ MgSO<sub>4</sub>  
KOH + KCl - 3 proportions - ammonium tartrate  
Formic - Ferric - Ammonium -  
K Molybdate - K Nitrate, NH<sub>4</sub> phosphate  
Zn SO<sub>4</sub> - K<sub>2</sub>HPO<sub>4</sub> - H<sub>2</sub>CO<sub>3</sub> 3 proportions  
Mn Cl<sub>2</sub> Mg Cl<sub>2</sub> Mg NO<sub>3</sub> Mg Acetate  
Mg Citrate K Citrate K Tartrate  
Mg Tartrate Li Cl<sub>2</sub> KOH 10% Sat li  
Li Citrate Zn Cl<sub>2</sub> NaCl Chloride K  
Benzoyl K Perate K Hypophosphoric K  
Boil KOH, glycerol, K + Sugar,  
dith. Gold K<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub> when soak out  
in KOH 2% - then change to 1%  
with KCl - KCl, H<sub>2</sub>CO<sub>3</sub> K<sub>2</sub> Citrate  
Hypocrite in oil,  
Boil K weak gly - soak out H<sub>2</sub>O, free K  
then soak in KCl, H<sub>2</sub>CO<sub>3</sub> K<sub>2</sub> Citrate  
Hypo - in KCl strong - pass  
Oxide current strong for 10 min  
300 mamp to form chloride film  
Soak out + Rinse -

see five have another, over think  
Fred still got one, 212 -

try pulling in boiling water

Why not tin back of Cu marks +  
burn that off, give steel plate,

on ground ammonia level  
with key all the thin records to  
see if growing like previous (a)

Put things in pot, add cells up  
on back

See Hester A 2 = out

Ask Rowland if he has cell  
he wants for A 18 =

Daily cell up scrap  
flake sheets, dry strips  
Eat out a chip use -  
also squares, punch or otherwise  
How about new flakes from  
Draught

Galatzein Mako No Lodge  
Co, Mn #6 <sup>Cr</sup> <sup>F51</sup> in tube calls  
See how much Bee getting  
now -

Tall heavy ~~light~~ ~~Buckhorn~~  
5000 as far as he knows  
I put 1500 and ~~under~~ -  
but all by ~~5B~~ check -

N. 504  $7H_2O$  Deadroot, <sup>6 conts</sup>  
40% fine to  $6\frac{1}{2}$  add <sup>lb</sup>

in ~~various~~ ~~stages~~  
Normal ~~conditions~~

Person ~~arrived~~  
24th - ~~check~~ ~~date~~  
plymouth ~~to~~ ~~20%~~  
Acto there -

~~2 tubes closed~~ ~~Interval~~  
Ends

~~See abt keeping~~ ~~blended~~  
~~under~~ ~~the~~ ~~light~~ ~~per~~  
~~leak~~ ~~to~~ ~~change~~ -

~~Have~~ ~~platen~~ ~~made~~ ~~as~~  
~~per~~ ~~sketch~~ ~~for~~ ~~clean~~

~~follow~~ ~~up~~ ~~if~~ ~~we~~ ~~don't~~  
~~work~~ ~~out~~ ~~before~~ ~~and~~ ~~amp~~  
~~black~~ ~~for~~ ~~clips~~ ~~various~~

~~follow~~ ~~up~~ ~~if~~ ~~needed~~  
~~Turning~~ ~~of~~ ~~pressing~~ ~~desk~~

~~Req~~ ~~up~~ ~~of~~ ~~ads~~

Daily test section of  
can with two wood blocks  
leaky places, all of  
closed by rubber &  
Troy Kott, Got (at rd)  
Cans very bad worse make  
at bar, about 1/2 in. in  
then put away cell  
Kott.

Take H. Hartman  
Minka Lelley Credit  
said check for Steam  
Arrange \$10 Bonds for  
Mining

How water indicates  
on cell -

Dope inside run to  
a bottom + all put off  
one cell - the other Dope  
elements + can

Smith make Cabalt  
Cell - when 50th Run is  
~~the~~ out,

Get list of California  
Pledations put in + has  
Pamela + Estab list  
to volume limit,

Morton given with  
Cabalt sulphate, or Chloride  
put in Kott's waste  
2 tests each of several  
responsible  
With Organic bases -

Prep. Ni from Chloride  
Nitrite Nitrate acetate  
Chlorate Carbonate  
rather sol salt,

Prep in part of group  
small for the side of  
in account of position

a screen cloth / basket  
immersed in part of  
con. solution of  
condensate

See several people  
about centrifuge for  
Stellac

Give gals of clear  
stuff for vaccine -

Jones about the vaccine  
Labial -

Buchanan report on  
log report of waste  
from new down

Meadcroft about  
Cook for new ady. tub  
Battery -

See about tools for 8 1/2  
tube cell - also make  
4 - 1/2 tube - 6 1/2 tube  
10 & 12

Prep NiOH from dif  
dilutions - very weak  
waste stronger & less than  
Req

Prep req a lot of clay  
w/nt for long time it will  
get crystalline

10 5th ~~1000~~ - 1000  
Pugs -

A 4 new put in 1/4  
CP Paraffin oil (Merck)  
& Run test, let cool  
off low so oil go down  
in tubes. When full report  
run -

Patent. Elec Wagon  
battery Capable of storing  
Enough Current to make  
the delivery, Motor, Control  
Etc as shown in plan  
A new method of using by  
Coast,

Make 2 good ~~1000~~ 1000  
for ~~Conrad~~ ~~1000~~  
2 small ones -

Put up a down record  
heavy backing lead, now  
to 1

Harry ~~Wells~~ ~~1000~~  
after ~~Kansas~~ ~~1000~~

Write ~~Ralden~~ ~~1000~~. Wisconsin  
University ~~1000~~ ~~1000~~

Advt. Elec Chem ~~1000~~  
Elec Chem ~~1000~~ Ask Ed. ~~1000~~  
on ~~1000~~ for one,

Dec of ~~1000~~ on ~~1000~~ and ~~1000~~  
a ~~1000~~

Water net. to make last  
and more -

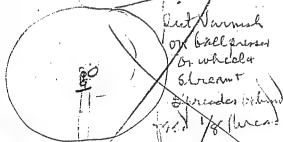
Acc if ~~1000~~ ~~1000~~ man has  
got any ~~1000~~ ~~1000~~

~~Andrews about  
2 ground burrows~~

~~Drove eastly from  
Valley summit to  
go off to the right so  
highly porous, all  
closed in, but  
fill small cracks -~~

~~Means about 1000 ft  
the horses have a  
paleo-...~~

~~down to 200 ft  
in little canyon -~~



~~Just beneath  
or below  
or within  
stream  
spread  
red / green~~

~~Get samples of  
think we have a lot.~~

~~find a deposit for shells  
which is not a  
Moritan - & ~~...~~  
the base dry~~

~~find the shells  
ora -~~

~~Test the ~~...~~  
when road~~

~~Legal dept. sec of  
have ~~...~~ or raised  
ring around inner  
part of disc~~

~~Asst. ~~...~~ of  
appealed~~

patent rolling out cutting  
pressing  
taken patent carb -  
2 patent soaked carb  
& veneers -

Alw with plate sticks  
Lacquer & pour porcelain  
Cement,

Try last lot tubers with  
glycerine only or with  
Chemicals, make quantities  
short after reduction of  
tubers by gly & small quantity  
KOH. Sand coat will  
fly, debited somewhat.

Old tubers 1st lot - pul  
up again with new dross

Requirements Tubers Glycerin  
solutions -  
glycerine dissolves

20 pts Arsenous acid	40 alumina
20 " arsenic oxide	20 Carb NH <sub>4</sub>
10 Benzoyl	10 BaCl <sub>2</sub> =
10 Boric	5 Ca Sulphate
10 Oxalic	27 HgCl <sub>2</sub>
50 Turbic	50 Kaonate
19 Indine	3 K chlorate
10 Cupric acetate	25 KBr
30 " Sulphate	32 KCl
7 Mercuric chloride	50 Na bromide
40 K Iodine	60 Borax
5 Na Bicarb	20 Na chlorate
98 Na Carb	2 Potash
0.1 Sulphur	50 ZnCl <sub>2</sub>
50 Urea	35 Zn Sulf
40 Zn iodide	

Glycerin - KOH nearly amount KOH only  
dissolves Carb Bi<sub>2</sub>O<sub>3</sub>, Ca S<sub>2</sub> the hydroxide.

Moore try glyco - 200 ~~200~~ <sup>400</sup>  
KOH - alumina  
Legal Dept get glycerine & English  
disc patents, man at public  
library



Have Ted boy get new  
heavy plated <sup>lenses</sup>  
when they are made

Learn our machine reading  
V. & C. - by way of use  
Electric 540 & used with this  
one using pieces of H.

Happy about getting balance  
of which stood <sup>of</sup> of  
Educational Machine

Wants Malloy <sup>new</sup> ~~new~~ <sup>land</sup>  
& Muzzles.

Bliss put up Bell drive  
1 Horse - <sup>on</sup> ~~on~~ <sup>water</sup>  
- lighter

Find of <sup>of</sup> ~~of~~ <sup>lake</sup> ~~lake <sup>region</sup>  
+ pay <sup>for</sup> ~~for~~ <sup>them</sup>~~

Just the actual land on  
milled <sup>with</sup> ~~with~~ <sup>off</sup>  
then tin land on - pressed  
No flux, used sand paper

-Pb 2 - Su 2 - Pt 5

Look over the Home turning  
machine to ~~Chicago~~

Educational Machine Reg  
Cylinders ~~change~~ <sup>change</sup> twice speed  
to record Children's voice  
on - ~~Reproduction~~ <sup>376</sup>

See how ~~the~~ <sup>the</sup> records get on  
best lot.

order 15 lbs <sup>of</sup> ~~of~~ <sup>corn</sup>

Dyno about getting Educational  
machine for <sup>for</sup> ~~for~~ <sup>region</sup> ~~region~~ <sup>records</sup>

Make 6 ~~more~~ Replicas  
for disk, ~~to~~ 3 No 4 3

Cast silicon if disc  
can be dry ~~after~~ hardening  
or white heat -

Edison station NY  
Big battery 22000 amp  
135 V 1 hour discharge rate  
\$60. per kilowatt hour  
figure was cost,

Grand National ~~refuses~~  
to accept spring ~~of~~ allows  
to track not standard  
So ball tracks Central  
W.C. Mc... & ~~numbers~~ -

Try varnish ~~with~~ a brush.  
use stiff bristle brush -  
Trowel - Spotted dip  
dip + rotate, ~~Very~~ thin dry & coat

Thick sticks on top - ~~Use~~ dry &  
Calliper - put on tin foil  
dry - then ~~turn~~ to check  
heat & pull off foil -

Bachman ~~is~~ the  
little English ~~for~~ Electrochem

Has miller ~~its~~ been designed  
for A 8.10 & 12 for blades

Jack Dea, Ed ~~and~~ Garago -  
Rent + ~~more~~ find receipts help pay  
rent money -

See ~~with~~ ~~of~~ room

Hydroxide added  
Recap by rolls &  
water evapn  
dry & seal in  
Euglenoid glass  
plates —

Coat blank with weak  
varnish before covering  
the back (omit)  
also try slightly thinner  
final varnish.

See Henry if I should  
for an illustration

Alcohol +  
Tetrahydrofuran - pour  
glass - dis out  
Itra to give flexibility  
auto woman

Varnish Mixture Colours  
with alcohol in alcohol  
dillo in alcohol + Nby  
dry & press - Daily to work it  
out

Coat Mixture by Methyl  
cellulose stream +  
thread like sticks

Try different speed to table on  
varnishing machine keep  
feed slow - vary between best  
rotation so don't over  
new M.S.O. 12" also  
also see how many gals  
can come out get 10" speed  
up.

Draw up critical Mellow & Mellow  
step. If each after 50000 + days  
as long as they are covered with  
me, if they remain dissolved then  
which is reduced 75% of water  
double this when water is kept

M 0000 - ~~Credence~~ ground  
try = also Metal Sand blast  
it low Etch with acid -  
or tin it + roughen -

Get 2 Reg Combs ready +  
using Robin sticks together  
+ take sec of CR + Test for  
temperature when get ~~Venus~~ ~~receptor~~ ~~down~~

Anderson is the drawing  
needed to test + fix now

Anderson How about  
Drawings + discs -

ask Nelson temp of his  
disc when program  
must not be higher than 100  
during -

BEE What is being done  
to rapidly reproduce filled  
Relay important ~~(note 100)~~

Wilson - Fred Babson showed  
62 given a ~~more~~ exhibit of  
ground ~~receptor~~ -  
3 Repetition ~~John~~

Experiment how to put  
cloth on - ground ~~receptor~~ platform

Wilson plug ~~Case~~ 5 wire  
50C - 5 ~~Stray~~ Battery -

4  $\frac{1}{2}$  tubs pure Nickel 003  
+ load with 10 worth grass  
one gr. - 10. Get 2 plates 1  
plate the nickel out of solution

Nickel - Miller to  
reconnect in ~~plate~~ bldg

Bee -  
Wash Concern fact 62  
are they doing ~~anything~~ -

Test Telvaco records 120 Fals

Make for South North &  
1/2 204 - clay spindle  
percolate & waste -  
of OK waste 2 or 3 lb  
& have R.R. surface  
2

Jones Large Lab filter -  
ditto barrel  
" Crystallograph & recorder  
1500 lbs. load of telvaco

Jones see if can't get less dampen  
below than barrel -  
Isrook & Carter &

Jones try melting telvaco  
& some black & heavy  
out oil - ditto North  
get rid of it - this evening

~~Wiederstadt etc  
Bamberger Scherer  
Joerke Plant Snyder  
David Strang Co. Munk -~~

~~Redesigns arranged parts  
so flanges don't break -~~

~~Standard divided where it  
scoly not compresses winds -~~

Speed of J.C.C. 25 Rev min  
Screw 35 10" Rev

Winds 7 per inch  
Screw pitch 10 to inch

Hole in wood pipe 1/8 inch



6612

Varnishing Machine  
Angle of Valves Regulated  
5 degrees from horizontal

~~Bo. Machine - Responsibility  
School of Art of Durand~~

Arkeni - fold up blank  
& run thru twice

Cost of Lake Material

M. Acidator & Sulf	73.00
Co. " "	9.00
CaSO <sub>4</sub>	20.00
Ammonia	33.00
H <sub>2</sub> SO <sub>4</sub>	2.70
NH <sub>4</sub> SO <sub>4</sub>	0.06
M. SO <sub>3</sub>	0.07
Current	30.00
Water	13.00

196.00

Labor 47.90

Expenses 62.00

305.90

Now saved on Ammonia  
Copper & water 78 cents -  
reducing to 27c

~~Fred still sick & no coating  
dry between~~

~~Arkeni - Make some thicker  
Varnish - or Fred evaporates  
over to get thicker -  
probably bubbles can't come  
up~~

~~Get Costs 1 & 2 for  
for Adon~~

~~Arkeni roll out long  
rope 2" wide & roll up  
then put in Silberman &  
roll plunger get rid of~~

~~Arkeni the 2 Rolls don't seem  
to run same speed~~

(683)

Put 2 layers together with  
Rosin. ~~1 qt. 40° Below Zero~~

Moore Select a ~~reamed~~  
for a ~~finishing~~ ~~plate~~ cut.

~~Moore~~ Next lot glycerine  
Tubes use Nitrate ammonium  
Cl<sub>2</sub> Ammonium Sulphate Soda  
B Sulphate K or Na  
+ acid salt. Trichloroacetic  
acid or white Acid phosphate  
Hydrocyanic - Na Hyposulphite  
Hydrochloric, Peroxyacetic

See the Sulphate by  
Ralli - Dry ground  
on hot plate to get porous  
Also one ball of ignited  
to get center & then  
re-ignite

Cut up 2 doz Strawboard  
discs get size from Arkansas  
boil Rosin.

Make device warm Rosin  
dish & vases -

Smith about ~~Wet~~ back -

Prep Card with each shaped

Keep cells filled with  
distilled water  $\frac{1}{2}$   
above plate -

Keep top cell clean  
don't let dirt get into  
water filling hole  
don't slop water all  
over battery as it  
goes to bottom &  
ruins can -

Make some of my balls for  
Moors -

Patt put 749 092  
who owns it is it value  
important - double dip dip

Dyn Lunden Co bet you may  
use name - ~~B~~ Diplomas  
get data -

Dyer - Murray per word  
July 1 - Almost talking  
Pratt - Murray up  
of not lose front adut

Put somebody on Scrap  
flake sheets -

Moore Jacques records surface  
then plastic covers set backing  
in & let it set -

find most core Robert Sol &  
fine Core Sol soaked in  
grease - also double dip  
burying between other Robert  
leaving 1<sup>st</sup> dip  
Try 3<sup>rd</sup> dip.

When dust & rapalms over  
Lay Rough 90° heat to barrel  
out out of heat in Vac -  
then Roll out to barrel

Monlan die sheet Steam jacket  
a nipple allow melted 1/2 lbs  
over 1/2 lbs (by given for)

Try Steam Venier on  
Shawwood by Rom in solvent  
not attached (Cinderstone) No  
Rom in Shawwood -



See next page skipped this

Be sure to get new tubes  
heavy plates for tests.  
hereafter -

Patent turning off Copier record  
with Diamond - backing -  
up & down a pet claim.

Patent turned fl of record  
Machin, goldend at 2 slope  
or browned,

Use vacuum with organic  
Solvent in which stuff  
+ launch most soft, then  
Varnish,

Put passports for all family  
Sealing B4 - all spill  
out +

~~Moore 3 days of 1/4" soft  
Rubber hand on desk best,~~

~~Moore the Resin based  
Resin is better than shellac  
Melt & pour, if heated  
stuff into the mold -  
Don't think shellac is about  
well was dry -~~

~~Ask Bledsoe if animal  
die is simple a new  
up on milk a d. c. for  
afford -~~

~~Rank Dutton Smith  
Salary 55c day~~

Make up 3 tubes, soak in  
strong Cobalt sol.  
dillo time, with K<sub>2</sub>H<sub>2</sub>O<sub>4</sub> reducing  
solution - UO<sub>2</sub> 35%  
Cobalt was well as the  
strong COCl<sub>2</sub> -

More after dead analysis  
of to check on ~~pulling~~  
2. ~~Check on~~  
funding ~~large~~ with  
detailed

Dyke see that Agbrun  
has covered all details  
here + in Europe,  
Especially phone part,  
+ Combs -

See Smith's log - I have  
now go ahead continuously  
to set if everything OK  
Can order 25 made before  
I go - also ~~Drum~~  
~~design~~

Anderson look over  $\frac{1}{2}$   
tube machine preparation  
ordering

Iron Machine loaded  
for small tubes -

See if Columbia discs  
have cardboard insertion

determine shortcomings  
in taking Vincer -  
+ etc for reference as well  
as assembling

Soak  $\frac{1}{2}$  mls Candace  
in warm water, dry  
then connect & dry  
press wire, then press  
to get flat & old list -

Wynant  
Collect photos Records  
press Coat of Wax & Envelope  
from Beach Curves

Little books -  
Small 1 ft. } photos  
4 boxes cell } photos  
press, lids } photos  
April Coat of Wax Co -  
1 horse truck

Heat a candle record  
up or see if it bums  
& slays part -

Write up talking points  
less ~~Walden~~

See Bradman about mats  
for animal made  
outside -

It's warm & nice / very  
thin glycerol, wipe off  
dry then warm & dry -  
little paper die 139  
200 Cent - wipe off

After delamin area  
hot & cold so can make  
right turning records

get Bradman's  
safe -

Make prep & ~~cell~~ better  
cell removable - screw where  
in -

Try cutting ~~up~~ the venous  
with a dissection.

Press electrode hot in hydraulic  
see if can ~~set~~ it -

Jones who will fail  
the shellac

Goldstein, ~~Cat~~ ~~Carbon~~  
Ordination, filler press  
Goldstein

Fix up the ~~vertical~~  
miser so ~~block~~ nearly  
touch ballroom

Probably ~~after~~ press  
deser too soon before prep  
plastic then cracks it -

Purify some ~~of~~ ~~the~~ ~~oil~~  
so no ~~open~~ ~~comp~~ off at 230

Also get substitute for Monochloro  
as carried 4/5  
just says if get it fine enough  
i.e. 4/5 don't need any ~~Carbon~~.

Make ~~C. C.~~ ~~the~~ ~~oil~~ ~~is~~  
mix 4/5 ~~the~~ ~~oil~~ ~~and~~  
Monochloro ~~and~~ get it  
fine, ~~grind~~ it with ~~resin~~  
~~substance~~ 4/5 to mix.

If ~~it~~ ~~is~~ ~~in~~ ~~alcohol~~  
rapidly ~~and~~ ~~will~~ ~~it~~ ~~be~~  
fine

2000 ~~to~~ ~~three~~ ~~200~~ ~~mes~~

When heat the wood fibers  
to 225. ~~500~~ ~~1000~~ ~~1500~~ ~~2000~~  
to ~~2000~~ ~~3000~~ ~~4000~~ ~~5000~~

~~Wood fibers~~ ~~to 225~~ ~~500~~ ~~1000~~ ~~1500~~ ~~2000~~ ~~3000~~ ~~4000~~ ~~5000~~

Sent Messon plan of  
Clifford ~~Clifford~~

Scherley Mafel (new)  
at Father's house -  
Composed by Fedraio  
15 Horn players

Instrument with Horn & 4/6  
or 5/8

See if you have gathered  
the same plants for  
also see all variations

Write Hurler's if man ok  
or where ~~to~~ ~~people~~

also kept from Bullbills

If we give us ways to make  
perforated sheets so you can  
prevent condensate from  
leaking to stop them  
from using it

Oxidize Enamel sea of  
good in ~~1950~~

Try Old Naval or  
Mountain several coats  
till its same thickness  
as lac bake at 140  
after drying the press  
should at 230 or higher  
if Moulton will stand it

See what applications have  
been made on sea -  
Vancouver, Victoria etc -  
if not enough - make other  
a-class now/and also try  
to shut out foreign -

Press some of light weight  
No. 10: 2 marks on Roll  
see highest loading  
not possible - try  
seven press -

Goldstein makes some  
Roll - No. 10: 2 & dry  
under pressure  
off heavy iron block  
4" thick to fit box

See - how about Beach  
Car rollers & as soon  
as he got 10 to 15 cars  
going we should have an  
inspection strain him  
& put in with job -

Brown plaque unpurified  
Pinto some do good one  
tested 264 times -  
find still put 10 layers  
instead 5

Wagner ~~St Louis~~  
Magnet. Rectifier =

Get old kid of Lvs for  
Spts Link -

Weight of Orakers carrying  
60x40 11 lbs. 6 oz -  
1 Vehicle had 12 60x40  
182 oz each 136 lbs dead  
load, room for 15 boxes.

Ask Charles if he has  
arranged the money  
to meet ~~his~~ note

Dyer was ~~March~~ notified  
under his ~~approval~~

Try oxygenation tubes High in  
Water -  
ditto in Water with 2% ROH,  
ditto " with 2% diO<sub>2</sub>,

Above with previous treatment  
with glycine + 3% ROH.  
without treatment -

See if Peters can't be pressed  
between discs that eccedical  
of Kelling

Does Legal Dept in England  
approve of ~~these~~ recent  
Buckley deposits do -

Expect the pocket opened type  
and all same thick but morning  
set on plunger + small feeder  
see Capacity life + durability note  
at 753 -

Roll out platted ~~copy~~ this day  
150 + then ~~very~~ ~~again~~ ~~remains~~

Hanny - gives me list of  
• ~~Chemical~~ ~~in~~ ~~the~~ ~~of~~ ~~the~~ ~~Case~~  
of 2 ~~is~~ ~~making~~

Draft letter for ~~Mallory~~  
Wilson - Roll ~~to~~ ~~gally~~  
or have ~~9~~ ~~some~~

look over ~~big~~ ~~boxes~~ ~~alopes~~  
bottle ~~with~~ ~~the~~ ~~Chemical~~  
that ~~Vol~~ ~~lab~~ ~~is~~ ~~scraped~~  
at ~~end~~ ~~of~~ ~~day~~ ~~leaving~~

~~give~~ ~~to~~ ~~Ward~~ ~~but~~ ~~has~~ ~~to~~ ~~see~~  
~~plans~~ ~~to~~ ~~def~~

~~give~~ ~~to~~ ~~all~~ ~~with~~ ~~plate~~ ~~the~~  
~~large~~

~~Review~~ ~~the~~ ~~large~~  
~~is~~ ~~9~~ ~~plate~~ ~~is~~ ~~not~~

Moore new record  
~~drawn~~ ~~formed~~ ~~a~~ ~~highly~~  
~~seems~~ ~~to~~ ~~be~~ ~~made~~ ~~out~~

~~has~~ ~~been~~ ~~seen~~ ~~the~~ ~~large~~

~~Cylinder~~ ~~Record~~ ~~with~~

~~Drawn~~ ~~1/2~~ ~~of~~ ~~50~~ ~~times~~  
~~after~~ ~~finish~~ ~~the~~ ~~work~~  
~~the~~ ~~large~~

Make several samples  
thick ~~al~~ ~~cl~~ ~~as~~ ~~at~~ ~~the~~ ~~fill~~ ~~of~~ ~~board~~  
I ~~will~~ ~~if~~ ~~a~~ ~~little~~ ~~more~~ ~~of~~ ~~the~~ ~~same~~ ~~kind~~  
~~see~~ ~~Daily~~ ~~Salv~~ ~~and~~ ~~find~~  
Salvants - ~~Daily~~ ~~of~~ ~~find~~  
go ~~at~~ ~~it~~



my BioH in  $CS_2$  Xantrol  
Sal KOD

add to make some high MP  
Moutain for lacquing  
( $1/4$  dope on old) 230

Pat. case  $1/2$  doz. acc. pins  
Moutain for test pins  
also (1) valve in  $1/2$  doz. acc.  
lid

Make  $1/2$  doz. O rammed  
8 valve pipes to test  
Valve, plate 1 is no test

Moore got section 10 feet  
turn diamond then pipe  
with Vienna lining chamber  
+ have all with the part of  
Copper leads turning chamber  
+ reduced Vienna beam chamber

Pat. case my acc. Sal on that  
again Coaled leads to opt. and  
if Copper metal, then take out +  
wash lead

start model "P" spec. show  
Drawings for Reg. also  
New arm + new line of photos  
new Rep. arm No 2 min

test gear driven photos  
+ OK adopt in new line  
of film

dump out <sup>what</sup> duties on Gatter  
Sweden France Russia  
Germany Belgium + Spain  
etc

Make lot of chips for Moore

3 Roin 1 yellow barway  
for sticking copper discards  
& backing to turning off  
plates

Get some ~~the~~ Secumy

~~Secumy 1 yellow barway  
day's night - 245 Roin of  
12 inch - 144 per inch  
20 hours - 10 Roin to 1 min  
4 boy - 50 min barway -~~

4000 daily cost - 450 lbs sold last  
weekend

Walter Miller ~~Wardian~~

Duties

France 1900 for 220 lbs  
Belgium 15% Advalorem  
Germany 9.52 for 220 lbs  
Spain \$1.53 for "

~~Try some of the old black in here  
Reserves~~

~~Tell Brindley about  
the plain Copper Converter  
& Working~~

~~Put in small flask for 1/4" or  
say 5 lines as much flask pen as  
slight as used to do~~

~~Get Curie from Longwood  
lets set of all for  
Europe -~~

Order Case of ~~115° C Red~~  
Shells

Get Catalogue of large  
Cans with ~~facade~~  
for Halkey Laquer

Talking point, E. 1st  
1st Council Baller  
Pb balling not a \$B  
as it is not reversible -

Try developing mixture of  
acetoacetic acid & shells  
together in acetylacetone  
B. 1st day, dis  
Also Cherry & acetals dis  
here & R. 1st day -

As cant suppress get way  
of getting case off a  
second do not use need  
again -

Also need ~~Shells~~  
new ~~exp. near~~ C. 1st

Q. 1st - Liquid Condensate  
on 20 to 30 inch section to  
bring it to 50 inches -  
for dissolving flake reds  
Carbonate residue -

~~Miss G. H. 1st~~  
Spring Rules 1st

~~Smith, C. L. L. by Fred  
Wood, C. L. L. by Fred  
also 100 lbs. 200 lbs.  
grain~~

~~100 lbs. New York  
100 lbs. Louisiana  
for 100 lbs.~~

Ryan - Hollandy Carbon Sulfon  
Sulfon in 100 lbs. This  
is a good article for  
used in 100 lbs. at the 2 col.  
200 lbs. grain from  
d. 100 lbs. 100 lbs. useful  
in 100 lbs.

Workup 100 lbs. shell  
Alcohol also 100 lbs. Alcohol  
100 lbs. 100 lbs. 100 lbs.  
100 lbs. 100 lbs. 100 lbs.

107

Primer is on run  $7\frac{1}{2}$  inches dia

Expt disc

Plain Resin 100 to 200 of paper  
4 1/2 inch block - moulded with disc  
from powder -

10" dia. moulded blank  
from powder 500 lbs. pressure

Then put one of these in Record  
mould heated  $1\frac{1}{2}$  min  
300 lbs - didn't fill -

2nd Expt 500 lbs 3 min heat  
heated - nearly filled some  
places perfectly filled -

3rd Expt 500 lbs pressure heated  
5 min -

4 - blank 1000 lbs 5 min heat  
Record 1000 " "

This is no improvement over  
3rd Expt, worse but had to use  
extra disc as mould won't fill.

~~5th blank from powder at  
1000, 5 min heat  
Revised at 1000 5 min heat  
NO improvement, foundation  
rough -~~

~~Raise floor to 2000~~

~~Kamuhaff White~~

~~Cement for these notes  
on little belly cover~~

~~No. 14 Successful process  
- 29 -~~

~~2 pieces 2 paper from  
pressed above 500 to 3000  
lbs - held 5 min -  
all worked same~~

~~Blank then varnished  
both sides heavy coat  
only once - put next in  
bad places~~

dried 10 min

This is depressed in  
polished plate 3500  
lbs heat 3 minutes

Then searched with  
the vacuum plate at  
3000 2 min heat  
press flat off down  
to 1000 lbs  
Cooling -

This pressed in second  
mould 3500 lbs heat  
5 min -

Cracks hardly perceptible

~~Make a lot CO a natural  
Holland at 1000 lbs  
of each & each group  
from -~~

~~Indicates  $\frac{1}{8}$  of total  
p. about  $\frac{1}{8}$  of total  
Heat  $\frac{1}{8}$  of total  
allent to  $\frac{1}{8}$~~

~~funeral customs flake  
plant~~

~~Grain to  $\frac{1}{8}$  of total~~

~~Merchandise~~

~~$\frac{1}{8}$  - Model plates,  $\frac{1}{8}$  of total  
Ingram by  $\frac{1}{8}$  of total -  $\frac{1}{8}$  of total~~

~~Get price desc.  $\frac{1}{8}$  of total  
also to  $\frac{1}{8}$  of total~~

~~1/2 of total of  $\frac{1}{8}$  of total  
Money on  $\frac{1}{8}$  of total~~

~~Instructions to all the Muckers~~

~~" Harry and Neal~~

~~Covers + Boxes data~~

~~Smith about  $\frac{1}{8}$  of total  
" "  $\frac{1}{8}$  of total, C~~

~~Concise drums, new Crane  
" pads film box  
" screens " glass~~

~~Instructions  $\frac{1}{8}$  of total  
on Electro  $\frac{1}{8}$  of total~~

~~Indicates Moore Worth,  
Jwa, Ceter,~~

~~Order 20  $\frac{1}{8}$  of total  
on  $\frac{1}{8}$  of total  
2  $\frac{1}{8}$  of total~~

~~Old data Keep up  $\frac{1}{8}$  of total  
Sandy hills  $\frac{1}{8}$  of total  
Cotton  $\frac{1}{8}$  of total +  $\frac{1}{8}$  of total  
R.R. Railway +  $\frac{1}{8}$  of total~~

~~Justin Smith, new C 1/2  
Leas, Co. P.O. - etc -  
Indian trail Reg. 28 =  
Holland + purchase for a book  
in E cell for next year -~~

Rail out necessary a 1/4"  
strip of Book plate  
after unweaving + set out  
Take <sup>new</sup> news book to Europe

Micrograph for Capt A 4  
without selling E.P. + private  
income local for no bond  
valued, but interest  
on mortgage for  
prod. copy the foreign acct.

2 Oct, <sup>Index Latin</sup> Box for Mass  
" Marking Museum  
on desecr. + taking annually  
+ selling out C.M. to reach  
state

~~Pierrem keep on air replas  
Justin to Kammberg + Brown  
+ Revell in new small  
cells -~~

~~Justin to B. B. in Re  
Mealon, receipt for wagon  
+ Indian run - Extra wheel  
+ 16 C 8 - 2 R. + old  
wagon~~

~~Justin to B. B.  
Copy all Helmut  
Bergman on C. B. to Imp.  
More membership  
The transportable  
The transport id. ca -~~

~~See local acct. in September  
shall be after 1st + 2nd  
I am about 1000 of block  
rel to covered exp. +  
Carbon~~

Full moon to ~~the~~

My Japanese stuff in  
Habe Regis. A.C. -

Went to ~~the~~ turn  
Cylinder for ~~the~~ part  
and ~~the~~

Make some ~~of~~ ~~the~~  
3 Kinds with ~~the~~  
medium & heavy Oil black  
Oil, make 1/2 doz each  
Would ~~be~~

Squeeze some ~~of~~  
Lipid hot ~~of~~ ~~the~~  
Sewer press to ~~get~~ ~~the~~  
load my ~~of~~ ~~the~~  
2 tubes on ~~the~~

tell ~~the~~ follow  
up little ~~of~~ ~~the~~  
found for ~~the~~ ~~the~~  
hook up ~~of~~

Badum to ~~the~~  
test a consult ~~of~~  
Pless as to ~~the~~  
show to ~~the~~ ~~the~~  
policy to ~~the~~  
from 1 ton ~~of~~  
1 Horse ~~of~~

Christmas - Newspaper  
printed on ~~the~~

Had ~~the~~ Regis ~~of~~  
only for ~~the~~ ~~the~~

But for ~~the~~ ~~the~~  
no 4 1/2



~~Bliss wagon 620 lbs  
and vehicle with extra  
weight, battery needs 500  
lbs - Use books filled  
with scrap metal for  
load.~~

~~With the auto start making  
or with 1100's start making  
with 1100's or then say 10 sub  
with 1100's and then several  
times 10" deep or 12"  
2 or 3 times. Then alter  
galling it down perfect  
fitting in press by 50  
pressure - get ahead  
with our stock of  
Masters,~~

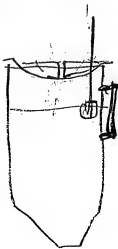
~~After all broad flat could be got  
by getting a plough of dimensions  
Using a very sensitive recorder  
whose record is important to  
produce practical results  
Simply by using sensitive record  
Mechanically & then complete  
the reproduction therefrom forms  
a harder step to reproduce  
the original value - the 2  
units being connected  
to Synchro - 2nd claim  
Connected Mechanically  
Etc~~

~~See Dyck 1/11/41~~

~~Save good head light  
on 550 lb wagon for  
night running~~

~~Aprax ballasts  
easily removed~~

~~Dyn dec if w/cant  
part New dec prose  
So as to cover Depress  
unproced~~



	mk	pf
Tetrachloralken	1	10
Pentachloralken	1	40
Dichloräthylen	1	60
Trichloräthylen	1	00
Perchloräthylen	1	50
Hexachloralken	1	70

Plague Resin or mix -

Substitute for Parita -  
Tetrachlorop uses 3 times  
the quantity of water with  
1/2 cup  
Prep with only twice  
the quantity

~~Substitute Parita for  
15 Tetrachlorop (or 5 Tetrachlorop)  
use 3 times quantity of water  
Prep twice the quantity  
of water -~~

Substitute for the 20 parts  
10 parts Eugenol + 10 Tetrachlorop  
Prep 10 Eugenol & Tetrachlorop  
4 acclimated -

### Plague Resin

instead 20 parts  
use 10 Eugenol 10 Tetrachlorop  
5 Benzoin acid

delta 5 Tetrachlorop 3 acclimated  
10 Shellac 4 Eugenol -

100 Resin  
20 purified Parita  
& three times amount of  
Monochloro acetyl or prochloro  
liquid like 10  
d. the twice that  
to keep 4/c =

Find a Chlorinated liquid  
that will not dis Resin

Oxidize Eugenol with 5 parts  
Chromic acid by 10 - natural  
of the dist. My C. L. 100

100 Resin  
 6 4/6 -  
 15 Eucynal  
 5 Tetranap

Dep 5 Napitl... (unclear) Tetra

100 Resin 6 4/6 - 10 Eucynal  
 10 Tetranap

100 Resin 6 4/6 5 Eucynal  
 15 Tetranap

100 Resin 6 4/6 5 Eucynal  
 10 Shellac 5 Tetranap

100 Resin 6 4/6 10 Eucynal  
 10 Shellac 5 Tetranap

100 Resin 20 Shellac 6 Tetranap  
 6 4/6 - 10 Eucynal

Dep with 5 Eucynal

100 0% hydrited Resin  
10 Benzoin  
8 Paraform  
100 @ 150 Denat'd Ethyl al

Dup 15 Benzoin  
Dup 20 "  
Dup 25 "  
Dup 30 "  
Dup 40 "

Dup 10 Phthalic  
15 "  
20 "  
25 "  
30 "  
40 "

Dup all with  
Acetone

100 Resin  
20 Benzoin  
10 Tetracthormapflerin  
8 paraform  
100 @ 150 Denat'd al  
Dup with acetone

Dup 15 Tetrachl nap  
Dup 20 "

100 Resin  
20 Phthalic Acid  
10 Tetrachl nap  
8 Paraform  
100 @ 150 Denat'd al  
Dup with acetone

Dup 15 Tetrachl Nap  
Dup with acetone

50 Resin  
20 Benzoin  
5 Iso Eugenol  
8 Paraform  
100 @ 150 Et

Dup 10 Iso Eugenol

Dup with acetone

Dup with  
acetone

100 Resin  
20 Benzoin  
10 Engawal Res  
10 Paraffin  
100 @ 150 Ellipt

100 Resin  
20 Benzoin  
15 Res Engawal  
10 Paraffin  
100 @ 150

100 Resin  
20 Benzoin  
20 Res Engawal  
10 Paraffin  
100 @ 150 Ellipt

100 Resin  
20 Benzoin  
5 Engawal  
8 paraffin

Sup with acetone

100 Resin  
20 Benzoin  
10 Engawal  
8 paraffin

Sup 15 Engawal  
Sup 20 Engawal

100 Resin  
20 Benzoin  
5 Res Engawal Res  
8 paraffin

Sup 10 Engawal Res  
Sup 15  
Sup 20

Sup 5 Engawal  
10  
15  
20

Sup with acetone

↓

"

"

"

"

"

Sup acetone

~~Dup all with Acetone~~

~~100 Resin  
20 Benzoin  
5 Tetraethyl nap  
5 Eugenol  
8 Paraffin~~

~~100 Resin  
20 Benzoin  
10 Tetraethyl Nap  
5 Eugenol  
8 Paraffin~~

~~100 Resin  
20 Benzoin  
5 Tetraethyl nap  
5 Eugenol  
8 Paraffin~~

~~Dup 10 Tetraethyl Nap~~

100 Resin  
20 Benzoin  
5 Acetanilid  
10 Tetraethyl nap  
8 Paraffin

Dup 15 Tetraethyl Nap  
" 20 3 "

~~100 Resin  
20 Benzoin  
5 Acetanilid  
10 Tetraethyl Nap  
10 Sheffac  
8 Paraffin~~

~~100 Resin  
20 phthalic acid  
10 Paraffin  
20 Tetraethyl nap  
5 Acetanilid~~

100 Resin  
15 Eugenol acid  
8 Paraffin - 10 Tetraethyl nap

4  
100 Resin  
25 Eugenol  
15 Tetraethyl nap  
8 Paraffin

100 Resin  
20 Benzoin  
10 Paraffin  
10 Tetraethyl nap



### Tougher Varnish

100 White Resin

10 to 30 Shellac or Glycerol  
used -

100 to 150 Denatured Ethyl

7 to 8% Paraform

(Dioxymethylene) 40°C. 6  
Koppland

Can add modification

Tetrahydro

Acetate

Eugenol - Shellac

etc

Instead of Ethyl

Aldehyde, Methylone

Acetate etc.

### Veneer Resin -

100 Resin dehydrated

20 Pentachlorophenol

4 Flake Wax  
Hardwood 1/4

Veneer Liquid in Varnish

90 Denatured Alcohol

50 of Veneer Resin

4 X 6/4 - 1.6

2.

2.4

4 - 2 1/2 5.6

~~Resin~~

6/4 - based on free.

Phenol = pure Resin

5.6% 6/4 - Phenol

in Resin 25% 6/4

22 amp  $\frac{1}{8}$ " plate 2 hour discharge  
rate, Electrostat guarantee

10" Carboard 98/1000 thick  
Weight. 80 grams -

Boiled in Room, wt after  
boiling 144 grams

Caliper after Room 94 -

Dia diminished  $\frac{1}{16}$  inch.

Cut with waive  $\frac{1}{2}$  Cent

June 15<sup>th</sup> A dealers 1110

Bad Fe brot back long low disch. = 100  
Makony estimate Cement sacks 1911  
1,800,000 bbls. Cost 55<sup>¢</sup> 80 selling 100<sup>¢</sup>  
Interest Total 73.

Cork paper 006 weighs 560 milly  $1\frac{1}{2}$  den

Price Submarine cable Type S Z P (S2)  
up to 20 P (S20) 135<sup>¢</sup> KWH, 3 hour rate  
To 9 - 521 125<sup>¢</sup> "  
N 14 made 14 A size  $\frac{1}{8}$ " tubes A 12 paper  
110<sup>¢</sup> KWH, 3 hour rate

61 lbs metallic Ni. lost in wash water  
per crane per ~~day~~<sup>week</sup> 20 hour 1000 gal  
1:100 density w. lost by 5 Grams in 6 days

Price films US 9.9<sup>¢</sup> foot, Perch Sun film  
8.8<sup>¢</sup> Cantha 10.5<sup>¢</sup> foreign filled  
50 sold 80<sup>¢</sup> Cost Neg 1.35<sup>¢</sup> ft

WJ newspaper ads average 2<sup>50</sup> inch  
of Column = Sat Eve Post 84<sup>00</sup> inch. most  
Monday 31<sup>00</sup> Refr 16<sup>00</sup> Life 14<sup>00</sup> inside

What abt the man searching  
Buckalite -

RA 1433-4-5 - prep copy

Get liquid Condensate, try at bamboo paper  
present intent to make Diaphan for  
Kee's sup. dar

Vannell Waques yearly cost.

Wagon depen	18.50	6 yr
Horse "	25.00	8 yr
Horse "	9.00	-
Repair wagon	50.00	-
Shoeing	30.00	-
Repair Horse	8.00	-
Stabling	216.00	10 month
Veterary	5.00	-
Drugs	780.00	-
	1142.00	-

4 1/2 miles from road to Ceresconer 60 delivered daily  
average mileage 15 miles

WJ Tzokobony was at Auto Elec Co  
Chicago Head Suppt previously with  
Western Elec was inspection then genl  
foreman 15 yrs high type man. (Moore)

Frank Sager Natl Cash Reg had  
chge took room since 105 was left  
went Yuba Iowa then to Chicago now  
with Natl Cash Reg (Moore)

R E Brown, Popular Bluffs Mo  
Dalton holding Mica had change.  
St. Louis Motor Car Co is from Elgin  
It is an old Cash Reg man  
(Moore)

Joe Plue foreman, old W Electric  
Cash Reg man very capable foreman  
is with W Electric & Elec Co St. (Moore)

Tom Rutland Englishman is at  
Yuba Iowa had chge several days  
also took room also had chge of  
a large dept Mt, 38 yrs old (Moore)

01892

Harris, Westinghouse Co.  
 Engineering force worked in all  
 branches, office, instruments etc  
 is in Newark, a Southerner (Neer)

power submarine ~~times~~  
 Cuts of speed ~~twice~~ the  
 displacement at a constant  
 speed & times the power  
 or with a constant  
 displacement doubling  
 speed requires 8 times  
 the power.

March 4 1943,

500 A4 per day requires  
 4470 lbs Carboline per month  
 2235 lbs 2 weeks  
 1,117 lbs week • 372 lbs per  
 cell -

1400	1800	6.5	
1040 -	120	8	
362	3600	89.0	
72	1800		
280	21600		
43	8	2160	
	72	172	2470
		198	

40	300	8198
26	3	2470
40		
104		

250	4500	5900
180		3
2000		
2500	609	
4500		
	6200	650
	40	

4

210.

250

Boston

NY

Brooklyn

Hartford

New Haven

Albany

Buffalo

Pittsburgh

Phila

Wash

Baltimore

Richmond

Chicago

St L

Minneapolis

St Paul

MO

Cincinnati

Columbus

LVP

Cinc

Cleveland

Tulsa

Milwaukee

Texas 2

25- 150

130

280

25

400

600

700

$$\begin{array}{r}
 15000 \ ) \ 85000000 \\
 \underline{75000000} \\
 10000000
 \end{array}$$

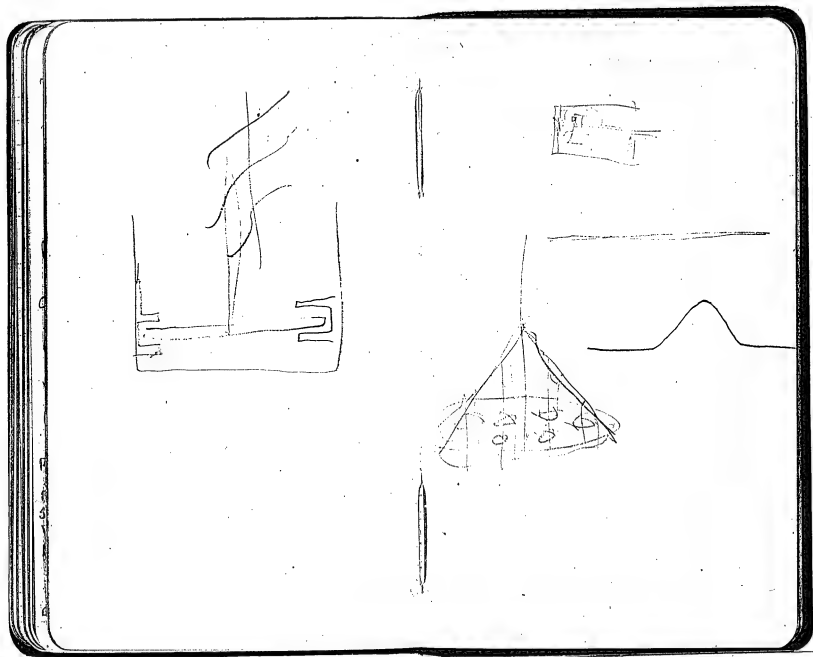
500

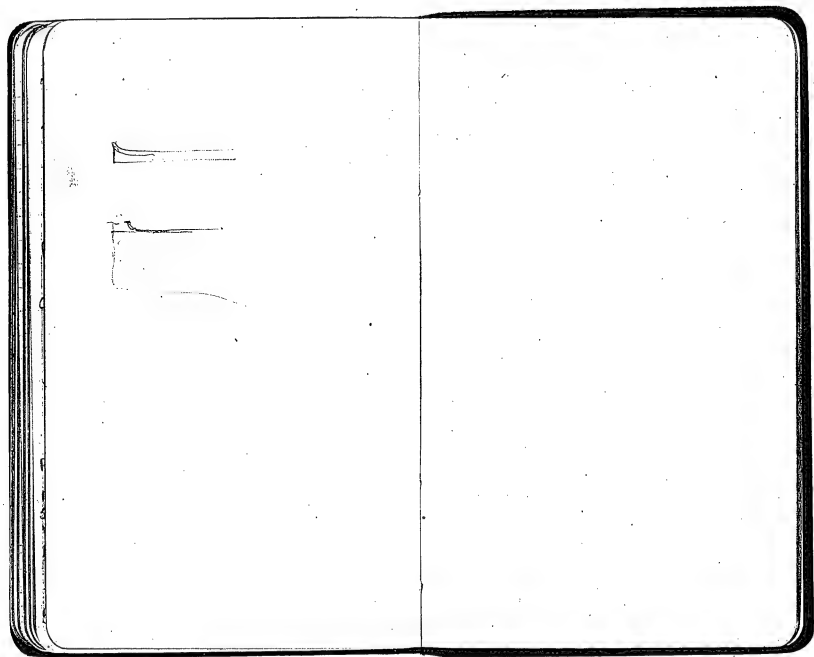
800

700

$$\begin{array}{r}
 2,56 \\
 \underline{28} \\
 \hline
 \end{array}$$

56c





Strontium Sulphate only well  
flake

1V	50 Run	1/2	Heat
273	280		243
327	333		303

Dry above with 2%  $\text{CuO}$   
 $\text{CoO}$ ,  $\text{BiO}$ ,  $\text{NiO}$ ,

It also runs dumber as it  
probably had  $\text{CoO}$  -

Also with 10%  $\text{CoO}$ ,

~~It also runs dumber~~

Dry  $\text{Carbonate Sr}$

It drops to 1/2 below  
anyhow add Catalysts



$$\text{Prof-484 w/ 450} \left. \begin{array}{r} 3800 \\ 3360 \\ \hline 440 \end{array} \right) (7- \text{ Cells}$$

$$2500 - 2500 \left. \begin{array}{r} 66000 \\ 90000 \\ \hline 17000 \end{array} \right) \left( \frac{26}{30} \right)$$

$$\begin{array}{r} 5280 \\ 10500 \end{array}$$

$$746 \left. \begin{array}{r} 3000 \\ 2000 \end{array} \right) (4 \text{ HP-} \\ 50) \left. \begin{array}{r} 400000 \\ 100000 \\ \hline 300000 \end{array} \right) (260000)$$

$$9 - \begin{array}{r} 81 \\ 14 \\ \hline 1152 \end{array}$$

480-

$$\begin{array}{r} 144 \\ 27 \\ \hline 108 \\ 252 \\ \hline 360 \\ 486 \\ \hline 846 \end{array}$$

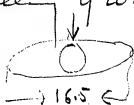
$$27 \text{ tubes}$$

$$\begin{array}{r} 177 \\ 4 \overline{) 708} \\ \underline{68} \\ 27 \end{array}$$

$$\begin{array}{r} 104 \\ 4 \overline{) 416} \\ \underline{40} \\ 144 \\ \hline 160 \\ \hline 172 \end{array}$$

Callenberg hat 130  
Condensli)

disc 7<sup>3</sup>/<sub>4</sub> after  
Roll 9 wedz -



6117-18-19- B1 Not pl. al. ed.  
21K2 ki

6120-1-2 d 6 21K4 ki -

10308 } KCl sat sol  
10310 } KCl sat sol

10341 } K Sulfate -  
10342 } Salinometer Calcd

Tube bright red morning bottom good  
red morning from darkening of test pad  
red morning night of pen

10280 } mostly clear  
10281 } Calcium Chloride

Ready to settle bottom when lost, reconstituted  
at 10 pm Thursday

10309 } Sulfate Very strong  
10340 } not very strong

No swell in a  
suspension tube  
Not cleaned tube  
red yellow very strong

10344 } phosphate Sodium  
10313 } NaH<sub>2</sub>PO<sub>4</sub> 12H<sub>2</sub>O

Tube cleaned, no deposit  
sat clear -  
10 pm Thursday

10460 } Chloride Aluminum  
5461 } Salinometer

February 3 pm

10312 } Nitrate Aluminum  
10311 } not saturated

Saturday 3 pm

10343 } Tube bright - Fe green  
10282 } Chromate Potash

Saturday 3 pm

6117 } Arsenate Soda  
6119 } Salinometer

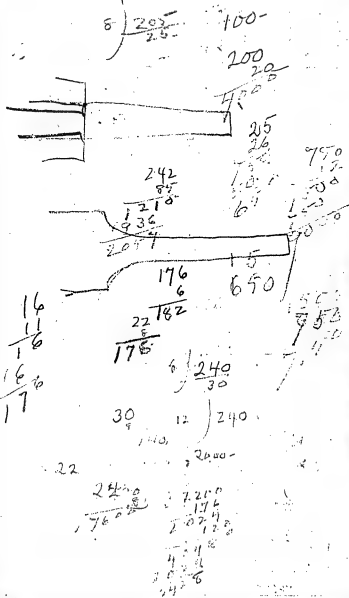
noticed water was yellow  
from something in H<sub>2</sub>O  
Tube destroyed no record of  
Saturday 3 pm

3763 } Nitrate Soda  
3764 } Salinometer

Tube very bright Saturday 3 pm  
Some water at bottom - TB about 5 cm

3762 } Sodium Hydroxide

3963 } Strongly  
February 3 pm



$$\begin{array}{r} 16 \\ 11 \\ 16 \\ 16 \\ 17 \end{array}$$

22

$$\begin{array}{r} 240 \\ 176 \\ 176 \end{array}$$

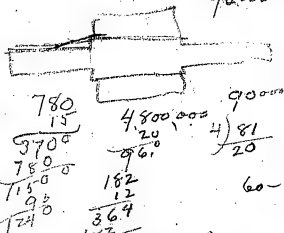
20. m

$$\begin{array}{r} 2000 \text{ } 100M \text{ } 26 \\ 207 \end{array}$$

90-125

$$\frac{200}{1000}$$

96,000



Temple 182,000,000  
Chicago 6,000,000  
Astron 400,000

R92-1,600,000

WVa. 800,000

16) 2184 (36)

$$\begin{array}{r} 16 \\ 52 \\ 10 \end{array}$$

0163

$$\begin{array}{r} 7450 \\ 19 \\ \hline 14 \\ 14 \\ 11 \\ \hline 39 \end{array} \quad \begin{array}{r} 52150 \\ 7450 \\ \hline 26650 \end{array} \quad \begin{array}{r} 132 \\ 220 \\ \hline 2640 \end{array}$$

$$\begin{array}{r} 1268904 \\ 48 \\ \hline 1268 \\ 5064 \\ \hline 5190 \end{array}$$

144

$$\begin{array}{r} 40^c \\ 10 \\ 20 \end{array}$$

$$\begin{array}{r} 1009 \\ 7d \\ \hline 9.39 \end{array}$$

$$\begin{array}{r} 1266 \\ 519 \\ \hline 1785 \\ 1120 \end{array}$$

$$\begin{array}{r} 1115 \\ 939 \\ \hline 1.742 \end{array} \quad \begin{array}{r} 216 \\ 126 \\ 9 \end{array}$$

$$\begin{array}{r} 35700 \\ 1785 \\ \hline 21420 \end{array}$$

$$\begin{array}{r} 17500 \\ 12 \\ \hline 35008 \\ 210 \end{array}$$

$$\begin{array}{r} 24 \\ 124 \end{array}$$

6- 25 miles -

$$\begin{array}{r} 1700 \\ 18 \\ \hline 13600 \\ 1700 \\ \hline 30600 \end{array} \quad \begin{array}{r} 16-12 \\ 30600 \\ 24 \\ 6 \\ \hline 680 \end{array} \quad (235)$$

2100 - 36-

18 miles -

$$\begin{array}{r} 2 \\ 13 \\ \hline 2100 \\ 180 \\ 30 \\ \hline 1980 \end{array} \quad (116)$$

$$\begin{array}{r} 116 \\ 1350 \\ 750 \\ \hline 696 \\ 54 \end{array} \quad (2.4)$$

**Notebook Series -- Pocket Notebooks**  
**Notebook, PN-11-12-01**

This pocket notebook is probably a continuation of PN-10-00-00.2 (see *Thomas A. Edison Papers: A Selective Microfilm Edition*, Part IV, reel 178, and *Thomas A. Edison Papers Digital Edition*, NP086). The dated entries are from December 1911 and January 1912. The book was used by Edison to record ideas about business matters, experiments to be tried, and other tasks to be performed. Many of the items have been crossed out. Included are notes relating to primary batteries, storage batteries, and battery applications such as country house lighting, automobile lighting, and miner's safety lamps. Also included are entries pertaining to the home projecting kinoscope, the kinetophone, and phonograph machines, cabinets, and records. In addition, there are notes regarding inventions to be patented and inquiries to make of the Legal Dept. about patents already applied for. Toward the end of the book are four pages of notes entitled "Chapples Book," in which Edison evaluates some of the individual songs in Joe Mitchell Chapple's *Heart Songs Dear To The American People*.

Among the numerous Edison employees mentioned in the book are Edward L. Aiken, assistant superintendent of the Edison Phonograph Works; assistant engineer John R. Anderson, Jr.; chemists Jonas W. Aylsworth and Ignacy Goldstein; master machinist Robert A. Bachman; chief engineer Donald M. Bliss and his successor, Miller Reese Hutchison; Walter H. Miller, head of the Recording Dept.; experimenters Charles T. Dally, Daniel Higham, and Alexander N. Pierman; machinist and longtime Edison associate Frederick P. Ott; his nephew, chemist Ludwig F. (Louis) Ott; Brian H. Philpot of the Disc Record Manufacturing Dept.; and machinist Albert F. Wurth. The pages are unnumbered. Approximately 150 pages have been used.

60 A4 to Ephraim with slippers June 16 1908  
Lancaster 60 A4 Feb 15 1909  
Mazehantown - Mich 13 1909  
J Altman May 14 1909  
W Springfield Dispatch May 15 1909  
Heat Vicksburg June 8 1909  
Ephraim with July 13 1909  
Tiffany Aug 16  
" 18  
" 20  
" 22  
" 24  
" 26  
" 28  
" 30  
" 31  
" 1909

Springfield, Mich. Jan 25 1909

Following up <sup>at Carleton</sup> Williams on turning  
Saphires

~~See Blum about new Hunter, soap~~

~~See Blum about Mary's conduct  
to Saunders in Homicide  
investigation~~

~~See Smith about cleaning  
up station building + garden  
at Valders - also in Trucks~~

~~Dialy - pass SO<sub>2</sub> out through Circuit  
Copper after iron removed by magnet  
This method was based on iron +  
forms H<sub>2</sub>SO<sub>4</sub> -~~

~~Maxwell for General Oakes's  
Representation of all the  
interests -~~

~~RA. Break up 7¢ through 190  
Mesh reduce part full pass  
Nitrogen, Water make  
A4 coils for test in cold  
also interested -~~

~~Hearns - find good for indicator  
to make the explanation (N<sub>2</sub> sulphur)  
over again - also, picture  
to Govt. ask cause & remedy~~

~~Bless - herafter 9 aft. stuff to  
be made in shops. Has that  
book been kept up~~

~~Bliss New under inspection for  
No 2 get it ready how  
weld vehicle is running~~

~~Att  
Fred All talks via over  
to Concrete Cabinet,  
see progress & arrange  
things -~~

~~Find out H<sub>2</sub>O per drum  
charge -~~

~~Ask Pengon for pay roll,  
Legal Dept, Maxwells wages~~

~~Has Morrill gotten 5000  
sent, No Model with hand  
in French stopper~~

See Hurlah about Fox going  
to London, =

Walter - How about Clockwork  
big machine worn gears -  
fades to Regulator /  
steel on steel - fog,

Walter Miller - How abt ~~exam~~  
when we take care to re-toke  
Cylinders to improve it,

See Hudson and make call at in  
necessary to make up our  
business - also if he would  
sell buttons - storage of case  
give him a good old amount.

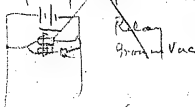
Pace about Enlarging Thompsons  
Optics of activity -

Dec 1 1911

\* Bergeron - About keeping  
film in England + British  
Separate the -

Tell Nestor about Horse  
Lighting =

Pless. Set down + draw out  
Relays + Sounding type, for  
Horse Lighting + put them -  
also



Pless. How get along  
Requirements for Lightly cables

Wilson What about moving  
Spig pic over here in tent

Woodward - Catalogue  
tent.



~~Call - How about having a  
taking camera supplied for  
physic picture etc. to be  
called on any moment,~~

~~Walter Miller - about talent  
& what to do -~~

~~Harry Up taken on hearing  
Mound - Also about place  
in factory to prepare Mound  
go see it & decide -~~

~~Call in & see if help at place  
& plans -~~

~~Holland to prepare book of  
Curves - all signs & phenomena  
Capacitors & dielectric  
Mention of dielectric of  
battery to all conditions  
for frequency. Report  
of dielectric to other  
Copies for other Cos. -~~

~~Goldstein - make several oz  
of the Cells to 1/2 from  
Electrolysis in case dry &  
send to RA to see about the  
& Mangan for Cal tests~~

~~Kennelhoff - Wenny Lamp~~

~~Leonard - how about  
Pergamum shipment -  
& Manganite -~~

~~See Weber & get Copeland  
for Carburetor of the vacuum  
| Kind of carb. is wanted  
to measure -~~

~~Go over to Conroy's Cabinet  
place & measure to \$70  
per day. Capacity -~~

~~Have chg & discharge Curves of  
Normal made by cell etc. after  
get them Cal'd Eggs~~

Boys make up all the Fe  
pockets of Non cold iron  
for test purposes, ~~and~~ also 1 more  
+ 2 5.5 gm of Fe pockets get away,

Put 6 Clt + funding something  
that will reduce HgO to 6g  
foundly sol in 21 KCl, <sup>24</sup> try  
Hg Diphosph - Hg Cl<sub>2</sub> use  
always acc. of unanalyzed  
try Cyanate Hg.

Of addition ~~precip~~ 16%  
Bi with ground and 3%  
HgO with it, use water  
Make loading out 7,000 etc

Get some Dry HgO + H<sub>2</sub>O<sub>2</sub>  
both make up 2 cells 10: 16%  
ground + mix 3% HgO with  
of 300 - see how it works

Try Hg<sup>15</sup> to solve KCl,  
Make Butyl Hg<sup>15</sup> -  
Mercuric oxide powder with long water  
discolor - probably inactive - KCl -  
Oxybrams Hg most of coming by KCl  
perhaps it is the only one  
Hg<sup>15</sup> + H<sub>2</sub>O<sub>2</sub> in cell - KCl.

See if we have a Permuth Cell  
OK if so work out KCl +  
put in some HgO in the tubes  
Mechanically, make a cell, see if we  
have enough H<sub>2</sub>O 16% to  
Make an A4 cell - for  
swath with Salt + precip  
HgO 3% in ground

See if we ever made an  
A4 with RAs big lot  
1% Cal alt if run do so

And is any success closely  
the work at cells - also  
have our models of parts -

Ask H. H. H. how far apart are  
plates on  $\frac{1}{2}$  P. museum batteries

~~How~~ ~~Walt~~ ~~how~~ ~~far~~ ~~apart~~ ~~are~~  
~~plates~~ ~~on~~  ~~$\frac{1}{2}$~~  ~~P.~~ ~~museum~~ ~~batteries~~

~~Try~~ ~~out~~ ~~down~~ ~~small~~ ~~large~~ ~~channel~~  
~~see~~ ~~if~~ ~~large~~ ~~funnel~~ ~~down~~ ~~give~~ ~~order~~

~~Test~~ ~~Cellular~~ ~~Records~~ ~~on~~ ~~W. H. H. H.~~  
~~Use~~ ~~Malboro~~ ~~to~~ ~~see~~ ~~that~~ ~~the~~ ~~opt~~  
~~on~~ ~~battery~~ ~~at~~ ~~Walt~~ ~~H. H. H.~~

~~See~~ ~~how~~ ~~about~~ ~~getting~~ ~~Electric~~  
~~Supply~~ ~~House~~ ~~W. H. H. H.~~  
~~Also~~ ~~all~~ ~~the~~ ~~Eng.~~ ~~people~~ ~~doing~~  
~~Lighting~~ ~~to~~ ~~see~~ ~~what~~ ~~it~~ ~~mean~~  
~~See~~ ~~Wilson~~ ~~Etc.~~

~~Smith~~ ~~Curr~~ ~~planning~~  
~~Exp.~~ ~~of~~ ~~Walt~~ ~~H. H. H.~~  
~~pull~~ ~~over~~ ~~Edwin~~  
~~then~~ ~~conny~~ ~~Curr~~ ~~based~~ ~~it~~  
~~mean~~ ~~of~~ ~~both~~ ~~Curr~~

~~Walt~~ ~~how~~ ~~far~~ ~~apart~~ ~~are~~  
~~plates~~ ~~on~~  ~~$\frac{1}{2}$~~  ~~P.~~ ~~museum~~ ~~batteries~~

~~Wm~~ ~~Wallace~~ ~~Nichols~~  
~~Vice~~ ~~Pres~~ ~~of~~ ~~Chalmers~~ ~~Co.~~  
~~Res.~~ ~~to~~ ~~Ed~~ ~~W.~~ ~~H.~~ ~~H.~~

~~Be~~ ~~sure~~ ~~to~~ ~~get~~ ~~quality~~ ~~of~~  
~~Components~~ ~~from~~ ~~Wm~~ ~~Cellular~~  
~~with~~ ~~W. H. H. H.~~  
~~Rov~~ ~~W. H. H. H.~~

~~Walt~~ ~~how~~ ~~far~~ ~~apart~~ ~~are~~  
~~plates~~ ~~on~~  ~~$\frac{1}{2}$~~  ~~P.~~ ~~museum~~ ~~batteries~~

~~Walt~~ ~~how~~ ~~far~~ ~~apart~~ ~~are~~  
~~plates~~ ~~on~~  ~~$\frac{1}{2}$~~  ~~P.~~ ~~museum~~ ~~batteries~~

~~Plan to make several  
samples. Now none~~

~~NO H<sub>2</sub>O~~

~~2% 4% 6% 8%~~

~~10% 15%~~

~~for Curves, capacity &  
Cochlear test~~

~~Get some single glass  
No sugar in~~

~~Thompson of 1870  
Small find that can  
take plates (1000)  
any time~~

~~Dodd Waterbury  
Asphalt & cement with alkali  
use diamonds to turn off  
if sulphur don't~~

also some Curmans with  
just enough wax to get shavings  
ok also anything harder  
we can suggest,

Tim turned off with  
Diamond & Diamond record  
tool if sulphur went about  
up. also Condensate partly  
burned, also shells of  
tetracliboro-nap-50 as to  
be cuttable

Charles wants the  
party - Make 2 Copies  
of my ~~originals~~  
of them -

Don't get to Edward  
Robertson etc

Testing demands get  
man & equipment low  
Wg - too high lamp,  
Zn should be cast in  
temp., great trouble  
is solving,

See Philpot if he has  
all his plans -

Get all drawings of deflection  
required, what bearings  
necessary, what new machine  
required, design  
& number of each machine  
required

Get some idea from Smith of  
elsewhere to do testing on  
demands, to pass ahead  
forward from lab to take  
go down to works &  
see present lab -

Test, demands with NaCl &  
various % of K<sub>2</sub>SO<sub>4</sub>,  
Thrusts increase

surface,

try pulling electrode near bottom  
as now case what occurs -

Try always NaCl,

Add Hg by using Na Amalgam -  
telling reason why Zn  
bad & ox solution Zn to heat  
& big distill off - plenty Hg  
or short stick - sodium may be  
good.

Dip Cells - Cells -

How is House in ~~Bank~~ a drawing

See Relay regulation

Hurry ~~Dynamo~~ for auto lighting

Get Myers answers for  
Tubular, Sunco pie plan

ditto above

ditto new design

Have Maxwell move up  
to Lab + take charge -

Don't forget Clarke 26/Blum  
to advise on New York Eng

How about getting services and  
Consulting of all voice transmitters

Legal dept to furnish the  
New pers again

Patent the strips across  
1/8 tube plate, through  
plate more, the valve,  
the 3 thin pins on base  
to plate -

Patent new cylinder reeds  
higher box  
Set of Celluloid reed  
rubber bands when patented  
patent Dymally + best has  
cents where considered  
discontinued

Relay regulation voltage  
pat, new show for cutting  
has new way leading  
iron in pocket been  
patented

Patent liquid for + then  
melted stop cell + crats

Bring singer reeds to house  
+ listen informal tubes -  
again + criticism over -

Collect of records that we  
can use on disc  
in locked boxes

Get Philpot ~~to~~ ~~write~~  
New lists of heads brought  
on new cylinders & labels  
for small with decimal  
labels & serial etc.

See Wirth & warn how to  
devise new methods of  
handling records to stop  
indexing the A's

See the N.Y. desk of Henry  
for p.c. records of ~~the~~ ~~day~~

Ask Wirth if we can't  
put acid on each other way  
& plate material for 7/4 1950  
# then Copper it allowed  
not peel,

Hulsh - What about  
trial letter for ~~some~~  
Cells, asked you a ~~returning~~

Write Waller & give him  
the Zone System # 1150 & 1250 →  
leave to work out & allow  
data from books - leave him  
get vol. 11 the census, then published

How about type Catalogue  
writer -

How about Catalogue on rough  
for ready for ~~the~~ highlighting

Boy to give me the new zone  
pockets, & see call for an  
Company to see quality for  
same material

Waller Miller will send over  
voices, list & ~~of~~ ~~the~~

See Waller & ~~if~~ ~~not~~ complete  
Cabinet of records which  
may be used ~~there~~

Have all the specimens collected  
& taken to cameras -

Can an indurated fungus  
have a time at night  
if so make big arrangement

Hulak how about covered  
full 102 etc. (or night not  
wood box powder -

Memorandum of Jones 811  
for Phelps

all the total fungus on  
any one of the 7th -  
do not off of cake - ditto  
do not on 6th or 7th - ditto  
from 1st - ditto  
try getting out necks  
from 6th

Arthur, attempt to block  
... could to make powder  
blacked after having as long  
up on a sample to see if we  
can reduce this glass,

See progress printing small  
film -

Arthur, early paper Labors  
in the case of early early mat  
Zinc, it was not known  
otherwise, then good film -

Get best results would  
"3000 darky discs"

Get that 2 pm Record  
Weather made of  
Very few experiments -



~~Walter Klein~~

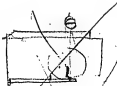
~~Big photo fine Ralls~~

~~ditto Big Ralls -~~

~~Servings~~

~~for Lab -~~

~~Much peak out for 4 old E 18  
that will give 70 or 100 amp  
put in 5 or 6 full (or more)  
After your seal salt water  
look for chlorine, close it &  
smell thru a 1/2 inch hole~~



~~Anderson~~

~~Take Anderson over to  
Philpat when the  
Department is released  
Philpat wants,~~

~~After, call me down  
when you get a greatly  
swelled powder blank  
want see it -~~

~~Much ditto for blowout~~

~~Field test - use vials &  
precipitate from organic &  
inorganic. Sticker with &  
double salts, also from  
Zinc precipitate only  
Phosphoric Acid, Boric Acid  
Arsenic, etc. Carbonate~~

~~See how old a get beat the  
Salt for 2 1/2 hrs. was got  
try on old E 15~~

~~Ask Smith if he found  
out about the amount on  
B4 Iron~~

~~figure out cheap way  
to make truck cart  
SB around well light  
see how low 70% water  
off on -~~

~~Zinc Sulfate Zn 6 lbs  
gals for Reputability  
a selenium. Home by King~~

~~How old = deposit 1/2 in  
Stove of Ho Electrode then  
distill Ho air in Vac -  
see quality of the 7's -  
in book~~

~~Mark all old Galvalum  
tins not coated on  
disc from sheets -~~

~~Get list of usually 7  
other names & packed  
out with Oxidation~~

~~Extra Cuprous Tubing  
Members 2 pin -  
test 4 cases for Orange~~

Walter Miller asks  
if \$1000. a song  
then 500 in Dept  
if 3 songs 333 +  
if 4 \$247 - will this do

Get list of singing societies  
Church, Churches, groups  
for testing songs

Rec if any North teachers  
in Newark or Orange

See Sergal Music lesson  
Complete book was  
got samples in best  
Chordless etc -

Walter Miller says  
a tune played a number  
if possible by every  
Orchestral instrument  
on Second Second - French  
top string -

Have blue print enlarged  
made from copy of  
Orchestra sets on records  
from Maxon book -

Have some new fs made  
up test in B4 cells for  
Coprak & Ed also  
2 A4 -

See if we can get green of  
not make some by green in  
solution then make  
B4 cells & Reg Sets -

~~Hudson River on valley unless  
Chy valley in summit by a shoe  
for 5 seconds at 1000 ft. or 1200  
The valley also by the head light. The  
decs, lands, do chyd at named House~~

~~McCherny is best of talk  
4 Ads for new series now  
is time to get ready  
Examples of Ads in Catalogues~~

~~Little small Kunita scope  
Catalogues + hints + samples~~

~~Watch you go up see  
Barbours up day night~~

~~Sunday King of the 1000 ft.~~

~~Put out rubbers between  
Celluloid & plates  
Paris~~

~~Put in groups of 4 cells -  
2 groups ~~like~~ Holy + Reverse  
for several hours. Then soak all  
night + Empty, put in new  
solution, soak all day Empty  
+ put of wash, etc. etc. day, 3 days~~

~~Canalys groups of 2 + smooth  
do same thing~~

~~Both always in groups but not  
reversed~~

~~See Blues of out McCherny  
Cycle~~

~~Have George H. Water type  
write books of times  
2 Scrap books~~

~~Put doz books like  
this~~

Give set ~~by~~ ~~old~~ Blue print  
the philpat

Lee Weber about moving  
that repair shop over to tool  
room

Ask Philpat about the  
new beams for planer  
Pans

Philpat if there are memories  
of home regard some  
same material

Harry Lott in ~~Electro~~ ~~By~~ for  
Sept

Get some flour, stuff from  
Balmain - heat good +  
use magnet ~~only~~ ~~of~~ ~~minerals~~  
it = also wash + slide down  
inclined pan on glass for gold  
also eat acid + some on glass

Cable Mount of Benda Part  
been paid

Make some of the most Conc  
Chloride or sulfate, have max  
solubility. So be ~~of~~ then  
dry + press it ~~up~~ + dry  
then do it again

Take out sample then  
do it again + take out  
sample + finally do it  
again + that will

Use 3 ~~each~~ ~~test~~  
Ask Gaidleton for most  
Conc salt is the overmost  
by drop of Co salt,

Quidleton prep to get  
80% Cobalt - Nickel  
+ Green H<sub>2</sub>O<sub>2</sub> to get  
good load ~~con~~ ~~of~~  
use roller

See that ~~three~~ new pockets  
are put up & run in cold  
to make sure

Get some more of the need  
1/2 from ~~at~~ ~~of~~ ~~part~~,  
for a cold cell ~~test~~ -

Bring up ~~1/2~~ ~~of~~ ~~part~~ to  
get ~~1/2~~ ~~of~~ ~~for~~ ~~3~~ ~~of~~ ~~cells~~  
for a cold cell -

Check ~~the~~ ~~of~~ ~~dip~~ in walls  
50% 20% fine particles go in  
mix -

Table 3 ~~show~~ tubes +  
dip in ~~Conc.~~ Cobalt ~~oil~~  
+ wash ~~5:00~~  
another 3 double dose  
think this good as the  
unlike Pt -

Also 3 Run tubes wash out  
very dip -

Move Maxwell somewhere -

Look at ~~Tuba~~ ~~other~~ ~~instrument~~  
rec'd again

Look at films -

Look at 1st dat. ~~the~~ ~~pat~~ ~~rough~~  
see if OK. ~~net~~ -

See Cabinets if they got there  
OK -

Enter about ~~the~~ ~~del~~ ~~cell~~

Check what are tubes

1/2 ~~quint~~ ~~along~~ -  
its very expensive -  
why cant they use ~~drinking~~  
also the ~~expensive~~ made it  
see house ~~drinking~~ Kelly  
set

Send for Lawrence now or near

When will little trucks go  
out again?

Christianity will not be  
present in the building and  
to make living more free.

When a law is passed  
The obj of govt  
is to make additional rules  
This is proved really an  
unreasonable and ill-  
laid Congress should  
allow it to die.

1538 Rd is new  
for 30 lbs down

Hitch - how new for with  
different weights also with  
some of them too much -  
to increase loading weight to  
7.5 and not increase weight per  
over 100 lbs a run the govt.

Take up with Gilman  
arrangement for 20,000 cases  
daily - max 1/2 3000 min -

Write Mr. Luedtke ask  
what Mr. Wicks is to assume  
them -


Walter Miller  
How about J. Ann Mauborg  
Conralls, Bernard Pasquali, Dupont  
Florence Wickham Conralls  
Lorraine Sparks, Lophmans  
Walter Miller, O'Brien

~~See Pieman steel diamond  
Repts for cyclones -~~

~~Wilson Report on progress on  
Reproduction, large needles  
& the others -~~

Worth trying plating Ni  
from white wash

Wash  
steel here

  
with proper thickness say  
10/100 then bend it up with  
chippor by transforming to  
another bath - until bright then

Study the records of  
the orchestra microscope

See how M. B. is far getting  
along on 3 cells  
if there give him time

~~Euler in 10% time books  
the balance of time now in  
leafs -~~

~~Have buy def. all the time  
records -~~

~~See if walls sent over the  
new label time records  
if so bring to house & look -~~

~~Give Anderson new  
karp shaped tin of disc~~

~~Go over with Anderson  
see Phelps at on ordering  
needles -~~

~~Test Phelps at Anderson  
summer work for Anderson~~



See if Smith got the 2 A4  
now

~~Kammhoff palice~~  
~~Mening samples~~

Put up 2 covered plates  
No. Examined Meers & Kaul  
in 2 short tubes  
Do the heat piece of flake  
See what you do have  
with green

See Howarth if those Cap &  
bat. Home will be ready  
for Saturday

Do you what you have in re  
fox

Blue print of ~~Chalcedra~~ was

See House ~~relax~~

~~Bachman of ~~del~~ truck~~

~~fred left~~  
Have ~~had~~ had you with  
his sample lamp if we  
have one with ship with  
also see look at flake  
done

Wilson & M. B. Ball ~~farwell~~  
Have you selected the  
4 ~~del~~ ~~del~~ ~~del~~

Wells ~~del~~

Groves ~~del~~ ~~del~~ ~~del~~  
page 329. ~~del~~ ~~del~~ ~~del~~  
middle of column on right says

"Certain ~~del~~ production  
of the voice, a fault common  
among ~~del~~ singers and known  
as ~~del~~, ~~del~~"

Trumpet is used in piece ~~del~~  
in some instances

Tabasco - dominant long

~~Adrian - Run poor for blanks  
of Cresal Wm just same  
is there at the nos are  
look in the class~~

~~Meals ~~at~~ DeLone  
Church ~~Chloers~~  
See DeLone W. Con  
School the job~~

~~Walter Miller Usay, source of  
Westerly~~

~~Madam Jim Doornof Myrtle  
1186 Madison Ave Central Ave  
Paul Bened. of Jones Postville  
Edwin Adams, Washburn  
Barryton - Julia Lindsay  
Kathleen Parlow Adams  
Blanche Showalter Pauls Grove  
Coffinet - Motenmaier Contralto  
Clifford Lott Postville~~

Maud Morgan Contralto  
RaeThoren <sup>star</sup> Contralto soprano philline  
Mildred Potter Contralto soprano  
Coyle Fanning Soprano  
Betts Hamburg Contralto  
Magam Newgarden Mezzo soprano  
Edna MacStocker Mary Hotel Casel  
Contralto soprano the Case Record  
Lillian Mather Hanna  
Dean H. alland pupil of Elizabeth  
K Patterson soprano  
Idella Apple Patterson Soprano  
Clemence De Vere  
At German Conservatory of Music  
College Hall 125 130 E 58<sup>th</sup> St soprano  
Mina Weasel. Coleratina, Solo  
Kagler Soprano  
Marta Wittkowska Opera Contralto  
Emily Christy Tenor soprano  
George M. Sulli Vocal Solo 1425 Broadway  
Marie H. Duit Coleratina  
Geo J. Stacy Tenor  
Serafino Bogatto Tenor  
Zma. Brozia, Soprano Boston Op House (41)

~~Stanna Cunningham Soprano  
Rosa Linda Contralto Paul Dufault Tenor  
Gardiner Lamson Bass baritone  
The above artists gave "Fugate"  
Quartetti at Synetic, San Lucia  
Maricopa FS Pavilion at New American  
Theatre arranged the above singers  
Musical Comps Dec 20 page 61~~

Rosa Olitzka Contralto  
John P. Barnes 1st Tenor  
Charles W. Clark Baritone  
F. Howard Almont Tenor  
Clara L. Roberts 2nd Soprano

Get the B's Cello report up on one  
with. Has only Hq Cy per Tube -

Another with Hq Salt & acid &  
put Sol in fresh to get in Tube  
another set of tubes - 5 set (B's) Salt in 211424

Tin boxes used for Master  
records are too flimsy - get  
model of better ones

~~Walter Mulla Warrant  
Cello  
Double Bass  
Harp  
Oboe  
Bassoon  
Saxophone  
Trumpet  
Horn~~

We were ~~exp~~ ~~acted~~ ~~at~~ ~~the~~ ~~the~~ ~~the~~ ~~the~~  
in San Fran - ~~california~~ is at

~~Blow note low sloping near  
horn then at 2000 ft until  
at Wall note also waves  
Also use for the box  
Also talk shop as did for  
loghouse - do some out doors~~

~~Get Patents upon all go &  
Keep him on reserve himself only  
until get something clear  
for him -~~

~~Rig up Reel with Micro to  
Examine films for own use  
then permanently for Gall -~~

~~Lower Oil - get 3 or 4  
for Bennett on 21K2 hi~~

~~Fall through about  
film - Schmidt & Wessers~~

~~Walter Miller Ask Collins names  
of some second years old where in  
Chrom words My Jumbo is  
used -~~

~~Hutch Cant I have his  
draftsmen to help out on  
baying out with Herles  
Disc building tower day  
late & up with Otkon~~

~~Askin try Cassel provide  
blank, etc. etc same  
process as physical -~~

~~See Constitution 33% test cell  
1/8 tube & strips across~~

~~See about C10 Model Cell -~~

~~See Weber about moving~~

~~Thrupet tool room -~~

Ask ~~possibly soon~~  
for Model ~~charts~~ between

Better Tin boxes for  
Master Records  
Also Cylinders

Start changing at Gallery  
at 32- ~~and know it~~  
Changes & Capacity

Journal ~~about~~  
Industrial moving Pic  
film - Long ~~exposures~~

Put man on Shellac Table  
to collect up ~~the~~ ~~was~~  
for Higham recording  
Cylinders

About the rubber ~~and~~ blue  
records - ~~finished~~

Pict Pat on ~~harder~~ recording  
Records -

Think Miller can get back  
music on ~~harder~~ records (12)  
engines

Ask Philpat why he can't  
have a ~~filter~~ ~~or~~ ~~Carlin~~ piece  
to cut ~~at~~ ~~own~~ & ~~air~~ -

Pergeon cost in detail  
film per foot & average  
amount ~~rec~~ -  
dolls Europe -

See Smith ~~recording~~ turn  
B4 run in 33 ~~if~~ ~~enough~~  
take apart -

Smith look Curran ~~1/8~~ ~~end~~

Ask Philpot how many  
feet free air with the figures  
for 500000 ft air 20 hours  
I make it 6 ft air -

Philpot show me how he  
jumps upwards, of new Reebos

It is probable longer & longer  
funiculi can be used in the  
tent

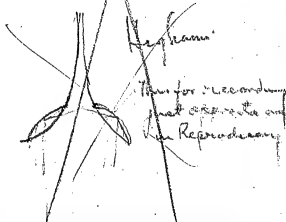
Give Maria P. to sign Dec  
26th = school day she takes -

Get Oliver Watson & Schrimm  
Catalogue of Marine publications  
Concent Progression Series  
Darts to of *Adiantum* 3 shells  
for my good vision -  
Also found

Tell Walter we can  
dive from shore to Cylinder  
good -

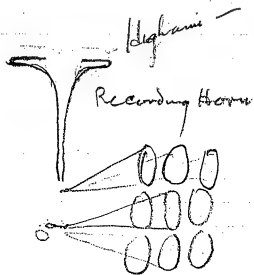
After 3<sup>rd</sup> run will select  
the weight for jumping iron  
that gives 7 or 7.5" ground  
& make 2. A 4 cells for  
teals -

R. Abriquet how about  
New for lower teals, also  
ground funis, see my thin  
up -



Refrain

Thin for recording  
not operate on  
the Reproductive



only 1 horn recording  
when closed at end

~~Walter, 2 months ago  
was to put valves in  
Baltay -~~

~~Leon says our purchasing  
agent is in partnership with  
Solomon the jew from who we  
purchase stuff - Coal, Copper  
oxide, etc. - Does Solomon  
take any Coal from him,  
the agent take it -  
Leon says gave job to William  
with out getting estimates -~~

~~Walter Miller says Picman  
make you a paper on his data with  
Cork Center for 1000.00. I can order  
several more like this~~

~~Abigail Miller says very  
fine Van from 10% H<sub>2</sub>O -~~

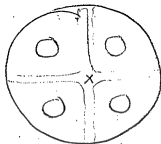
~~Screen out them for weeks before  
from bag but need to see how  
it feels with certain weights~~

Ask Harry about supplying  
to Gloans etc

Rechner Clean off space for  
text 60 x 80 - x



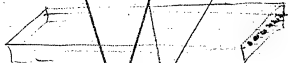
4 funnel -  
Vicos clear  
1/16 wide -



Proman get diamonds low  
as possible + another with  
Reps weight + Mellichio link -

~~Anderson desc cancelled home  
bill drawn and cork wants in  
pulleys~~

~~Make 1 pocket with several  
Nicket wire fine~~



~~Tasken wire in 3 rows 2 rows  
than put in 300 wires max 70  
pach with 40 wires wire keep  
in place then press + connect all  
Run 3 lines at 300 + closed  
deschly Cudd~~

~~Put up one 100 cell with  
24 W 2 hi + 3 rows  
Turbate Pismuth~~



~~See Anderson + Phil put +  
Aiken + start the orders  
along for Equipment,~~

~~See W. to furnish the grain  
Hans record while I give~~

~~Start that boy that's on  
Lucas on Shellac + Tatra  
Naphtalin etc with other  
things to get hard;  
Record for program -~~

~~See Al W. + give him  
2 or 3 records that he  
can make + make sub  
masters also - these records  
same while in Europe  
put in book -~~

~~Huber man press some new  
Fe Cakes in smooth steel die  
we used to have use greatest  
pressure + see if it sticks together  
well if not force it in an open  
end pocket.~~

~~Huber - Open up the cell with  
5 1/2 gram plates max. Fe + make  
some with 3/4 lb out 20 lamps  
+ put plates back + run again~~

~~Put Petri to work on hard  
records for the program - doc +  
Tatra + other things -~~

~~Make up new Fe grids +  
add wire as much as  
dip with Ag Fe + old same  
Try Cd, that -~~

~~Figure out train, program  
Record final papers contents  
+ Gibb's call in Fe +  
Do by self -~~

Tell test man to test those  
lots of new  $F_2$  cold -  
also put up the new ones  
now making a test cold -  
also the ones with tubes the  $H_2O$  -

Test those rows of  $F_2$  that  
were covered out to defoggers  
take them off the windows &  
test cold -

Get best record on base  
With new in new mould  
Darius & try new Concrete  
Cabinet -  $\alpha$  -  $\beta$  -  $\gamma$  -  $\delta$  -  $\epsilon$  -  $\zeta$  -  $\eta$  -  $\theta$  -  $\iota$  -  $\kappa$  -  $\lambda$  -  $\mu$  -  $\nu$  -  $\xi$  -  $\omicron$  -  $\pi$  -  $\rho$  -  $\sigma$  -  $\tau$  -  $\upsilon$  -  $\phi$  -  $\chi$  -  $\psi$  -  $\omega$  -  
Can raise it to use the  
records -

For up turning fork  
Hydrogen -

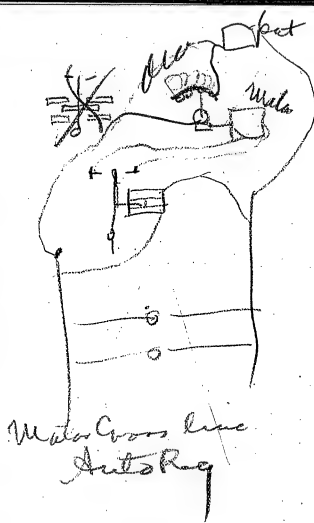
Paint concrete with  
acetaldehyde type white  
see how it goes -

Get funnel filled to ear  
& valves - try seals  
with reflecting sheets  
reflects light & wood  
see quality & hardness  
all in effect -

Hand bag



Horse  
Bag  
ampoules



~~Preparation & get profile  
Per foot on line / film~~

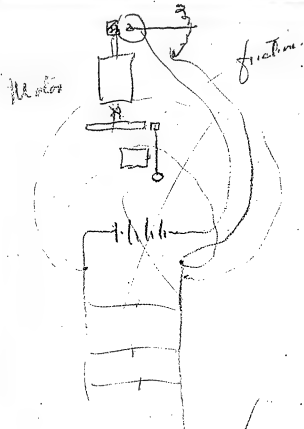
~~Wilson camera is nice  
boxes — tie with tape  
Open S. side tape~~

~~Take a Drum / Wissner  
spit him on pad designing  
cheap mask / eyeliner  
Conceded make wooden  
Models~~

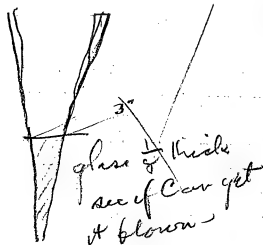
~~Wissner just in 002  
Cook Camera / also for  
Hug Wissner / Gall Wissner  
Zolla Wissner —~~

~~Bliss try magnets in tr. legs  
or lenses / carbon at medit  
recording / panel  
for Wissner / film~~

Wissner  
Wissner  
Wissner



Water wants to cut out  
 Res friction prevents until  
 off then water cuts out  
 till friction comes on  
 again - No controls



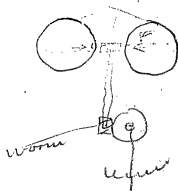
5  
 100  
 Rent phones  
 month - they buy  
 Ream



9 pins down  
 Circuit assembly in  
 of circuit on  
 "low" Relay basis

Re-box lever in to right  
 or left -

Number down



Daraphim Park -  
 probably limit - plenty of  
 farms owned here -  
 It takes cross across bay  
 R.R. 1st 9 saw at opposite  
 Big Car shops - now here  
 here -

Work out a screw feed attachment  
 to Victor + arm - also pulling out  
 from whole apparatus in Victor  
 Cabinet -

~~see Tait's Bi Cell~~

states new for also could  
 test this weather -

~~Wilson why want  
 Negative Machine  
 furnished my man~~

~~Mallon I think the coat  
men wearing make a  
dust coat that floats wa  
see about it -~~

~~Not spinning high enough  
on machine to throw dirt to  
surface see ~~if it is not~~  
Bliss - see about dirt on top of  
10 B2 should like M. M. M.  
see what can be done -~~

~~Mendocraft  
Man to work on  
sight reader C. C. C. C. C.  
from notes - how can  
advantage -~~

~~Have some regular for  
Rocks made models  
Concepts lighted possibly  
press in their museum  
by 20 specimens still had~~

~~Progers 005 stock now  
pocket, Rex pressure &  
Corygamy -~~

~~Moore tell Progers how make  
1/1000 gap too paper Cook calendar  
of size 1/4 -~~

~~Find out from W. M. M.  
What ~~of~~ talent will  
any forth name -~~

~~How make 2 1/4 inch tubes  
with the new for with flake  
& 2 without flake & put  
up with 4 but 1 more  
tube up with 4 new tubes  
ditto 1/8 tubes -~~

~~Walter Miller see if he  
can get use of an armory  
to his Experiment, also  
permanently or divide between  
2 armories~~

~~Or a large flat roof for  
tent & sand bag floor -~~

~~Primary spoken sound:  
on dark matter of humming  
sounds of dit words spoken  
by Edison without vowel  
sounds to see how dark  
in means - If humming  
sounds are long thin  
Hagham can use a big  
bottom wire or more wide as  
they will in displacement  
not fall into big vowel below  
but fall fully in hiss  
- track light -~~

~~Hagham try balloons  
Carbon Telephone to record of  
ok try 2 of them in series -  
Multiple~~

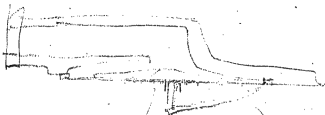
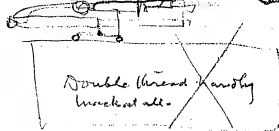
~~Have boy run blue covered  
on 10 dif. wires  
see if no group -~~

~~British helian must we  
have 1/2 thousand  
cellar~~

~~Did I get the helian  
between Colorado &  
Platte, Texas -~~

Build man Red hair  
Norton

Get metal very  
much of ~~any~~  
+ press out ~~the~~ ~~to~~ get  
a couple to put pocket  
- set up ~~the~~ ~~case~~



metal metal loaded  
clapper - yielding between  
probably only top except near  
if can get right spindle in center

Alken - Test seal magnets on  
thick double flange to see if  
metallic <sup>cast</sup> greater stiffness is ok -  
before you can cover them for  
tests.

Use a photograph on table  
with wheels and Cal Stewart or  
also ~~memory~~ of ~~flame~~ ~~the~~ ~~last~~  
Valve ~~Some~~ with journals +  
also Record " ~~work~~ on

Have Norton start Lab book  
on Iron alone -

Mendocraft like ~~Kenn~~ ~~City~~  
that ~~is~~ when ~~clipped~~ -

Motor for ~~the~~ ~~alone~~

More ~~plates~~ -



Get records of location  
highest level

Make 2 log Cams  
for Iron 506 shaft -

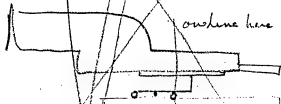
Weekly Reports on progress  
of School Individual  
picture -

Go down tomorrow sat  
see how film made  
picture -

A det. in Metallurgical  
& Chemical Eng. & O.C. (the  
Mining Dept.)  
Mural & Eng. Ward  
City of Cambridge  
Hall, a good quantity of paper from

Highest of Living  
by Hiram M. Hartwell  
pub by Joseph M. Wade  
Boston Mass

Tell Permin to put sustaining  
ball thin



Ask Pills why we can't have  
Carbon dups



Advised to Requisite Hallage  
on Autos,

Ask ~~Bliss~~ why can't we  
split up a 60 cell battery  
in 4 15 amp + use 4  
transformers OK, each battery  
separate + variation multiple  
# with 60 & 15 in each  
branch / eff 40 amp

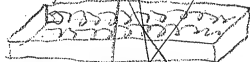
Louis 8th sec of Simpson  
Prong has a ~~scalloped~~  
ceatlin, with def metal  
as ornament -  
ditto Johnson  
" Selkirk

Make up a C 8  
with 8 tubes high in  
plate, also find Extra  
Cost - use strip in  
center here too

Goldman ~~where~~ write  
Nickel from different  
acids from ~~Rail~~ process

Walter Miller  
Columbus Record 1081  
Claude A. Cunningham

Pierman Record  
loop at different speeds  
on cylinder + def declam  
Edison will do it -  
Want to see if higher  
speed won't give better  
Consonants



Spirals in 70 pocket

Jungsten Contacts -

Bliss How about Gehmels  
Cement - How is plant  
explaining on  
How about shipping  
out again  
How about Crystallog  
Features -

See the film (and  
file) -

Smith sent new 42  
A4 in case case

Get Hopkins 2 vols  
Bring down to  
Chem Room & start  
the young man in  
some thing -

Electro. Hg. vms  
4997-8

Hegham - new long paper  
fundamental for H. 204 - to  
throw out further - none  
to test if it really does  
but same small cup  
diameters -

Electric Motor  
bag design -

See which large balls  
of new paper used in H. 4  
also which balls samples  
of big particles with  
knives or 4922 sec of  
alpha -

Disc add - In C's  
Adv dealers of 5 disks  
part 5 of add in  
1 for each in same  
Column & any than  
instead of 4 or 5

Atlas Engine Jobs  
Indiana  
Directing 10 quads per  
100 KW at regulations

Delivered Trachym  
Which cost more was  
that proves metal  
plating is water  
propels to steel  
Stick - How show  
Rogers which it cost  
- all cracked up

Speaks to Bless you Motor  
to all out of program too  
big for work for Regulation for  
House Light

Melior's of Miller the  
Metallic extra Vibs in  
Voices in the 2 best singer  
of last last time, 10 - what  
is it

Nymphs of Fauns,  
Wally Song

Good

H. Rosenberg

Drawing hand turning  
off regulation

QV Truck 1/2 wire in  
also what they that marriage  
rec. Hallam

~~Humbel,  
Klaus Wimmer & Rogow  
letter returned from Paris  
with explanation why no  
answer to Holler~~

~~Lowell = my new  
cat experiment. Permitt  
Salution 150 deg  
F. like nat. local,~~

~~also distill 70 Hg from  
in vacuum + but not all  
Hg off go to deg above  
boiling point,~~

~~In 3 weeks coming  
Recording man back from  
Europe to get unbalanced~~

~~that voices - no req found  
like at noise~~

~~Had set for keyham record on  
microscope~~

~~listen to some left the furnace  
+ the phone + playing  
+ noise~~

~~my Hummel clock dia in 3/4  
machine for keyham - very delicate  
spring pen / needle knife~~

~~also try one like keyham 101  
on piano + 27 hummel  
+ paper weight + recorder~~

~~Drop note to Perry end of  
he told about about  
spinning fields what moved~~

~~see if the recorder has  
metallic~~

find out what ~~numbers~~  
Montrose spec work are  
why they don't go on test

Bliss what ~~about~~ that  
Depnans on Pierce screw  
city ~~work~~

Allen about thin discs  
remade my ~~samples~~

How about ~~compression~~  
equipment ~~work~~

JV Miller ~~at~~ the Normals  
Compressors need ~~out~~ test  
job - ~~at~~

McKernan ~~at~~ the  
about ~~our~~ ~~compressor~~ job

How in ~~interview~~  
on Bakelite. See JWA  
+ legal Dept ~~about~~ ~~interview~~

Patent Echo ~~from~~  
look at Tent ~~application~~  
Next bags hanging 3" thick -  
also ~~from~~ ~~rough~~ floor of  
bags - bags filled with  
Magnesia Ox. Chalk ~~from~~  
mixed with ~~decolor~~ fibers

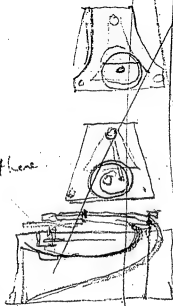
Except from E. Paul ~~from~~  
Tape ~~from~~

double ~~rocking~~ beam  
recorder ~~with~~ my ~~big~~  
Record Man ~~from~~ from that  
on disc ~~recorder~~ & ~~center~~  
by ~~analysis~~ of ~~recording~~  
ply ~~for~~ ~~recording~~ ~~recording~~  
this ~~copy~~ to ~~have~~ ~~Record~~  
+ ~~recording~~ ~~at~~ ~~we~~ ~~discuss~~

Leonard -  
Selling Dupont ~~Exp~~  
Nams, big ~~4~~ sales last 6 months

Wilson Numbers, ~~or~~ for ok  
of disc boxes. 1 up disc  
this -

Cheap thous made now making



Sketch here

Patent Controller for House  
lighting with double feed if  
works ok with Relay of discs  
no relay but provides 4 comb lamp  
to vary field -

See who board directors  
American Exp N.Y.C. -  
idea being to look to them  
responsibility -

Ask Branch if he can  
that Penn R.R. director or  
what because of it -

Write other people what  
is smallest disc any that  
will be used -

See what Mooraman  
is doing -

Macdonald put ad in  
Times. Includes (see one)  
Tel. Monday Tele. on Sat. Sunday  
Evening News. Newark  
and Cornwall, Banbury -

Write promising to prepare  
full Catalogue of all the <sup>year</sup>  
Eng. & Mech. & <sup>year</sup>  
Mish. <sup>year</sup> Mess. <sup>year</sup> <sup>year</sup>  
also  
2nd Hand dealers in  
Musical books,

Grat the same in  
all the countries (10)  
Russia, Germany, Austria,  
Hungary, & Italy

~~Plata crystals forming in  
carbon as well as on  
glass, Schott, Schottlin -  
Also sublimation from one  
bulb to another - Borax,  
Cryolite - Sulphur - Zinc  
Metallochrom.~~

~~Platina Bromides -  
R. B. Smith's compound~~

~~Neobis - Hex bottom of  
tent so air can't come in  
(Or chlorine 10. Cat &  
Zinc sulphide) at cap there -~~

~~2nd Hand Paris - go  
over to Newark -  
See Lantz. If they can  
make a specially soft  
striker good -~~

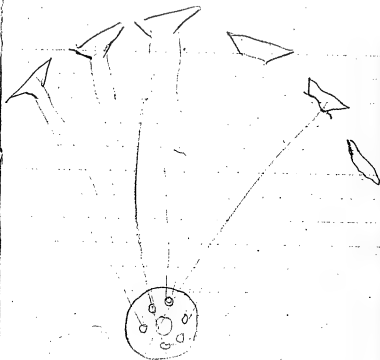
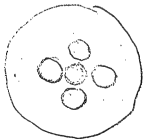


There are 3 or 4 extra 4922  
Probably they have put them  
up on board for help after  
Calk test

Look at 4923 theoretical  
went to see and collect numbers

Wagones - mean in station  
2 buildings, either 3 or 4 -  
two more, establish points -

Plans - Drafting design  
150, much for disc of  
view & change with clockwise  
for 1/2" left up feeder  
to cheaper in all ways -



5 or 6 horns - very tapering  
left the 5 holes, having six  
area equal to 1 half 1/2  
incl plate  
This would be 1/4 inch each  
about & plenty big enough  
each voice post of horn  
or all near center

~~in waggoner contract  
only guaranteed the cells  
not the crats~~

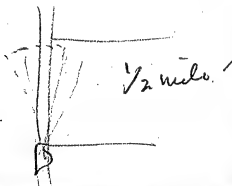
for ~~new equipment~~ Base or reg  
plate alone, also Cells &  
flute, - tube & flute -

~~Nicola - Xungalum  
for thing in tent -~~

disc powder to get rid  
Spang & seats, got ~~connected~~  
with graphite or talc  
in ~~reducer~~ ~~reducer~~  
in ~~reducer~~ ~~reducer~~  
it will flow nice.

~~See work for better  
need no standard crats  
that he wants starts on  
for us to make with  
2nd hand one will do  
any old thing~~

Why not a pencil vibrating  
light at rear train, instead  
depending near back



Daily - Fixed Cylinder

Wax put in full of fine  
grains so it is not  
at all times not react,

also turned cylinder

Coated 15 rods to 20 per

by frequent process

with all kinds of microph

various to get some

Cutting Rods of different

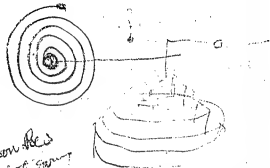
Parallels Etc

Did I patent the

~~xxx~~ Recorder

Buchanan about putting  
good man on to work up  
mechanism for ~~Edging Top~~  
Edge Cells for ~~we can use~~  
Can again of ~~the Cells~~

Try listening to Sophronos  
in def horn to see if the  
Sola beats can be set up of  
by horn & if so, if the horn  
will be in for ~~ten or twenty~~



Carbon disk  
Vibration  
contact  
on an Hg-

Have meeting ~~to plan~~  
Buchin ~~to~~ ~~the~~ ~~way~~

Order press powder blank  
Cold as it flows then warm  
to consolidate - ground fine -

Jar moved for powder blank

Turn off or blank with  
diamond see if get good  
surface -

Rotate a heat plate  
plates against it,

Roll out slabs in ~~rolls~~ &  
press these

Make 1 coat ~~see~~ then  
transfer a 5 coat over  
dried, after the mag  
225 heat coat transfer

Put plaster Paris on lat  
it set in cavity of disc

Ground very ~~fine~~ fine -

Dred horns with, buy Fe Hg in  
Vacuum -

Goldstein, ~~the~~ results -

Have Peans taken to tent

Klein - Reg ~~last~~ horn

Also test Saphyans on  
all the holes and  
def distances -

Vaccys tubes go  
over them on plans  
4 surgery

Daily mixed  
Magnesia + asbestos  
Mathews have reasons  
for writing

Worth, really 1 Record  
Carmel, Mexico!  
Dr Casanova -

Aiken - press fine  
powder over it ~~hollow~~  
then screen fine - Repress

first put little powder  
in mould having feltle  
G-4 then rough bulk  
then sift over some  
powder with G-4 +  
press - surface well  
not stick to mould  
which is cause while  
spring spals -

Aiken -  
Would be high ~~low~~ steel  
ground when buffed -  
Alcohol + ~~thick~~ ~~black~~ -

Acetani if these want  
fines ground ~~sample~~ of  
black pulp - think these  
for book paper - ~~extra fine~~  
sulphate first, ~~or~~ ~~concentrate~~

Person, Comment the aluminum  
content is 10% in steel but no  
tension in steel bars  
or just well to hot & anneal  
Kusko ~~...~~

See about getting something  
man for ~~spoke~~ Picture - what  
salary does ~~person~~ man get

10.04 + 1.16 CP Tungsten  
for Ben at night -

Try how thin a coat can be  
put on powder, mouse & Gant  
face -

Patton or top layer powder  
blank of 1 to 1 or 1 1/2 Run to 1  
paper sifted paper fine, or  
Lacquer mouse to get rid of  
Effets, Big paper, fabric -

Take up with Ballium  
& Ballium the ~~dry~~ cell  
dope -

Ballium no eff/consistency  
working - for opt must be  
open so can see it -

Also Ballium ready for  
Clarke -

Arden after making new  
blank with varnish mouse  
make a transfer see sticks -

if it stick use ~~the~~ 4/6 in  
Varnish - also lower temperature

See progress Arden 3000 Day  
little Philpat - 9/2 eye & see  
what being done -

Get stake free Mc Co ore  
with Gold Math, wash  
& dry & try at evening -  
also reduce Mc Co ore by H  
& then dissolve -

See fresh ore breaking & scale  
out best & make with fabric  
arm & disk just to show -

Look how rough small  
disk getting on

Drop some tubes (2) in  
Concentrated CoSO<sub>4</sub> dry  
& then KOH, wash out & dest

~~Wilton - try to get the  
press flat and out of way  
Req for also new Fe -~~

~~Arken Creval Blank a  
Record for Cold Steel~~

~~Go over to tent & have some  
of the records - London  
etc -~~

~~Have Paris & arrange in  
tent & recording house  
to find out possibility -~~

~~See Leonard - Analyze bones  
No Cigarette stamps -  
Why was ~~for~~ Gold Sales &  
offer money from  
1400 to 1400 -~~

~~Bliss cost remaining 85 V  
Wilton -~~

~~Go over to new Water bldg  
Hales Convent Cabaret~~

~~Put up Compost & plant  
Paris & funeral with it -~~

~~Try get House in Ewan~~



~~Credit man, Monks, judgment  
Levy on Car etc when he pays  
for it,~~

~~Abigail help alone for the  
new from he want to make~~

~~Green way (long) for the  
Screen and stages in  
Moving Pictures~~ ▽

~~Wilson. How about having  
an outside investigation  
new Pos film always in  
M.P. World~~



~~July 28 1912~~

~~Fred Ott -~~

~~left parked in~~

~~ground with in  
narrow~~

~~Since we can't rent the 5th  
ave place and sales room  
for Disc.~~



~~Picnic~~

~~Diagram of  
the stand: cut a thin metal plate it on~~



~~stand stand~~

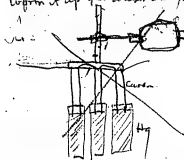
~~Hughes~~

~~Middaugh. Learn an orchestra  
from the good people you have  
evenings, 6 or 7 in 2  
by evening~~

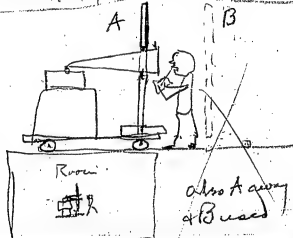


Jan 30 1912

~~Asken grinding up charcoal  
with of hand because try it  
for disc 6 days send some right over  
warn it up get well out before grinding -~~

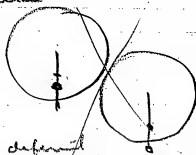


~~Ad for Dead Reaction looking to  
the Disc - pick it out of the several plates  
Also try the other of articles who are  
be scientific~~



~~Norton, new Fe, reduce in sol  
take out wet just right in press &  
reacornigite - 2 left them  
also, 2 just commingled, change in  
battery take out wet &  
quartzite Comingite - Bath  
sets on Rip test, then Cold -~~

~~Pierman~~



~~Levers defined  
fulcrum - 5/8 both go up if lines in  
right -~~

~~Maxwell to find out from  
Hughes who points articles  
on Chignini in Evs Globe  
29th January~~

Look at ~~paper~~ pulp samples  
under ~~microscope~~



Double before glycerine between -  
shop Vibrations and

Dully cut up pulp paper  
strips cook in melted glucose  
Recm. Cook & see if provides up -  
Dully ~~cut~~ <sup>or</sup> ~~from~~ <sup>cell</sup> ~~make~~  
some comfortable of powder  
Wood ~~fibres~~ <sup>in</sup> ~~Matias~~ &  
Knitted,

See what cheapest felt  
is & the best, per yard

Dyer who is ~~at~~ <sup>at</sup> ~~handing~~ <sup>to</sup>  
200 three ~~strip~~ -

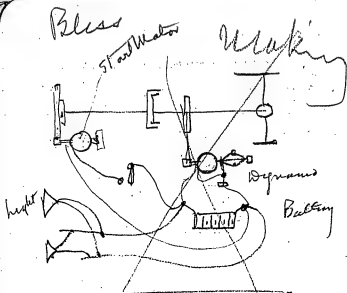
Go over to test ~~swear~~ <sup>later</sup> to  
Halking in the room) at various  
disclaimers

Regenerate very old tubes  
by dipping in Conc CO<sub>2</sub>SO<sub>4</sub>  
after drying, then KOH &  
break out SO<sub>4</sub> - 2 each

See if Norton made new for  
& old in 605° products  
by passing rod <sup>in</sup> 7 gms  
litrelet (B) <sup>at</sup> ~~at~~ <sup>at</sup> ~~at~~

Moore put a paper cork disc  
in Wilson new sample recorder

Ash ~~files~~ <sup>white</sup> ~~been~~ <sup>some</sup>  
about steel case for School  
Kumby ~~scope~~ -



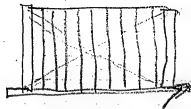
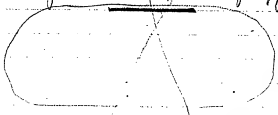
1st permission to go down to  
Army with labeling horns  
of the M... .. couple to  
sing

See ~~B... ..~~ give  
about also  
John Map at Kelly

Speak Dyer about 3 yr lease  
Compelled take because O'W... ..  
forget why do you not have  
records of such things &  
not trust people's word

Hingham

Star 12 ft. 7 ft high



See Volume

Speak Meadows about  
Mc Kenley M... .. part  
Co. 100 Copy part  
Calatogues

Give names Engineers for book  
to Halliday

Lloyd of General  
Wells Andrews &  
Moussat

Benjamin  
Andersons Engineers  
Bakers Engineers

Engineering Council that part in  
Colon & \$ 600

Walker from Eng. Land & Bank  
also Engineers

Patten Tech Elec  
Baldwin Lee works Eng (Electric)

get names

Eng of Bayhale  
Stro & White  
Elec Eng of Bay Co  
W. White Co  
all Elec Cos refer  
Cracker Electric

Had all put the left outside  
the funnel — checked tight —  
see if Rupert filter want  
see if I marked & would  
sign —

If glycerine fails try brass  
 $\frac{1}{4}$ " thick in sections secured  
together or flange — perhaps  
later better or polished or  
buffed inside — ~~Cracker~~  
Brass flare ribbed outside  
polished inside & tapered  
to easy removal of joint

Higham up 20,000 needs  
4000 glass ball up to 20,000  
get conservative —

Higham put boards on  
background to reflect  
to funnel —

See how ~~water~~ ~~about~~ ~~clock~~  
up with too much telva  
Nap -

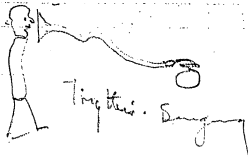
Have Arben press down to  
thin size after the 7 ~~laagung~~  
& Oxford ~~laagung~~: want  
see if ~~soft~~ ~~fabre~~ gets red  
Bore Valley ~~hill~~ -

Meat ~~arrange~~ ~~to~~  
have semi-weekly (Wed &  
Sat) reports of ~~arrange~~

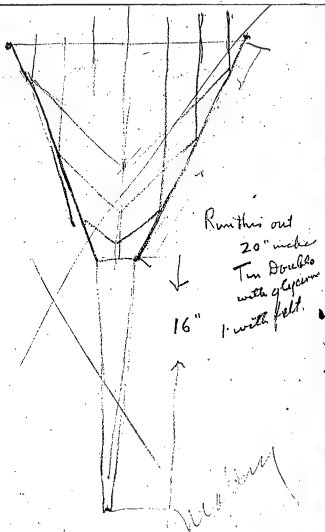
Burdock  
Cyn. ~~man~~  
Dumb ~~birds~~  
Dally  
Wirth  
Anderson

~~filling~~

Bliss about ~~water~~  
From lamp neg Valley ~~for~~  
Lamps on ants - little  
Carbon pale & selenium, only 3 at  
4 amp - also tiny metal Res &  
Selenium -



Try feet ~~flung~~ for  
Recording - Singing +  
Plane - ~~flats~~ long  
glycerine -  
Try both in tent on  
singing -



Dally also try rotating  
screw, also shaking  
across Taylor



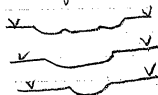
Get some more flocks, etc  
from Lehmann

Wittig - chge of Gen  
works working as machine  
uplows works -  
See Weber

In singing where a male  
or male of Sopsmans on  
high quon squawk have  
bel sing without pears  
it may be due to beating  
against Pears

Higham - try 20,000 Knifs  
 & bal. also 10 & 4 -  
 to get increased loudness.

Personnel go to limit

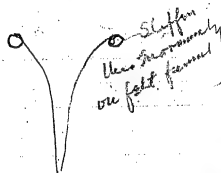


with Cathode



glass funnel try  
 it -

Lead 1/8  
 (used inside  
 shielded boxes)



Stiffen  
 the neck  
 on felt funnel

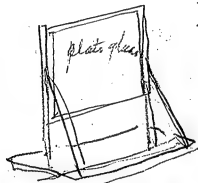
See Bless about a line of  
 Dynamos for our house lighting  
 outlets -

Heavy Dally of Lehman up  
 fibers -

Food etc get the glycogen

also 10 lbs clock funnel

When put sheet down  
 paper gets in Resonance ground  
 see for -



2x2

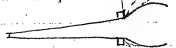
3x3

3x4

1/4" to 3/4"

also slate  
 concrete  
 steel -

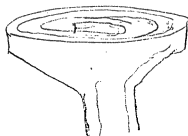
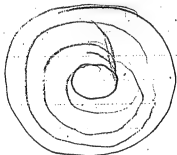
Put Fred ~~etc~~ / on bags for  
reading



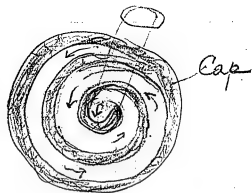
General funnel to put various  
ends on. To see how far  
band on phone will be secured  
with Red Secorhol



Okman

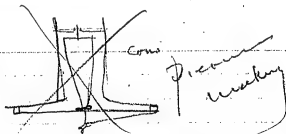


Sound waves pass on dia  
then a valve of a valve -



Legal Dept - did I apply  
Lacron mowor





Have ~~width~~ piece sponges  
with screened tubes blanks +  
+ stop until he find  
where ~~seals~~ -

Width ~~about~~ cloth  
around his anodes  
when ~~was~~ dent open  
+ porous plating -

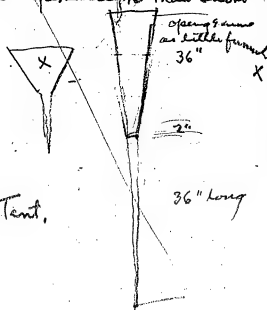
Raise ~~each~~ Paper to  
#12 -

Make another glycerine  
flame at steep angle

Try big glyce funnel -

Make glyce funnel -

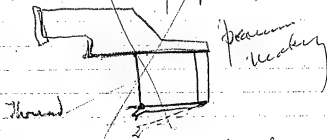
36" long - at end 2" then  
flare stripes - except than about  
funnel



Revised Tent,

36" long

~~Edison records on page 504.~~



~~Thread~~

~~Try secondary  
tensions + strong steel like  
Reptel -~~



~~if shows results try split in 3 parts.~~

~~Get the Edison Al Spinning  
See if some glassless -~~

See Edison + have him put  
down just what is wanted  
from glass + have it scabbled



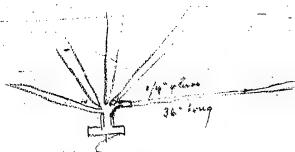
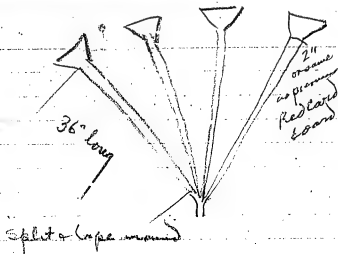
With Clean oil from  
Grease box, but probably in it

With, few fibers blank test

Webber didn't really about  
Steam pressure for Worth

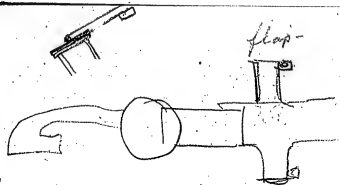
Arthur Mack flock blank

1113



Orchestras -

Pressure, heavy upset on Recorder  
as used in Pianos -



flap on strong  
Chords of saw  
4 blades forming  
cut -  
1/2. elongation

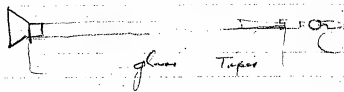
1/4" diam to 1/4" wide

36" →

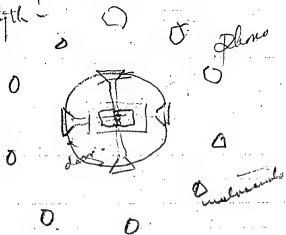


See what Wears gets  
idea to raise salary

Raise them to \$80 week -

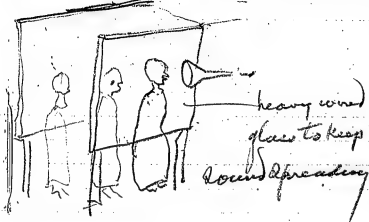


any  
if you buy loose cotton wash  
length -



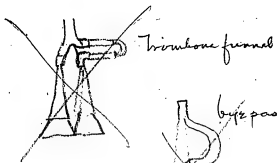
Have Philpot grafting  
the blank when press  
also ~~press~~ grafting  
after press ~~set~~ of  
deductions +  
also try ~~check~~ savings one  
with ~~my~~ that -

Wirth - after grafting  
disc for ~~control~~ ~~reaction~~  
inspector ~~for~~ ~~discs~~ -

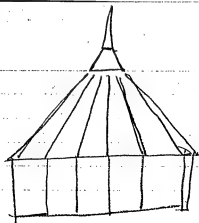
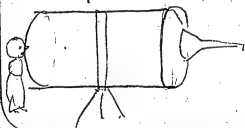


Daley - to go to Whitehall  
 Technical Co get funnels or  
 to other subject drawings -

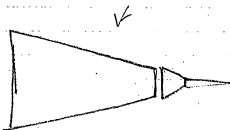
Look at book says get  
 loose tooth record & look at  
 record in means to show  
 short sharp fundamental -



Quide-iron open end end



unbalanced



One section first best for Volume  
 12" from horn then 12" from end  
 of extremum acc low -



Use small hand horn with tip  
So can go near singers with  
relative to quiver or sustained  
note.

~~Beach if you boost  
on an empty battery  
it will go dead -~~

Try many finegrained  
with last coat of Neonal  
Varnish on last transfer

Apply by the surface of  
the Neonal metal to  
the pores -

Try one of Neons smooth  
Press plate buffed for  
last transfer Neonal

~~Try on metal a plate  
of glass and if it scratches  
with Speer~~

Meadocraft find out where  
they got all the music for  
Piano Roll, 2000 now listed

See if I have sent W. Miller  
list of heart songs from  
Chapman look if not close  
find if someone can any  
of them or own other  
National Patent -

~~Perman use brass tube  
instead Rubber on the  
double finger -~~

Try glass horn made by  
Dally with flange & mouth  
also been made -

Put 1/4" Rubber band on  
Cellulose each side + then  
Freeflys - pull off to leave  
Bluish ends see how it looks -

Grafting a scratchy disc +  
see if Cam can trouble in  
Micro use new brush -  
Can probably see defects  
better also try scratch  
see if less -

Discs to water when he  
works the valves on strong  
singers he starts it off too  
much + it has a bad sound  
~~appearance~~ too weak +  
too far away it sounds  
stand more without  
jumping

~~Experiment of Cam ground the  
fly's nose fine - with what  
I have made 5 gram packets  
if can't get fine - put .250  
Wily dry fly's in each 5 gram~~

Take a black record that  
scratches to Rosny + buff  
record set of Geller -

Try new glass for  
scratchy

With ground off a  
Wood transfer  
with rough see  
how that works

Copy all the Chappelle  
tunes <sup>in my book</sup> + complete list  
in time book

Chapples Book -

Rowley, tell of the battle	fair
The Battle Cry of freedom	"
Take me home	"
To the Evening star	good
Sweet Genevieve	good
Cradle Song	good
Prudels Chorus	fair
A Song of the Sea	fair
Beautiful Isle in Heaven so bright	fair
Larkboard Watch	good
When the Sun shows	fair
He left the snow clad hills	fair
Dream faces	fair
Oh don't you remember Sweet Alice	fair
Long ago	fair
Tempest of the heart	good
Soft soft music is stealing	only fair
Coming thru the Rye	"
Some day	good
Old folks at Home	good
Korner battle songs	fair
Make me no grandy chaplain	fair
Last night	fair
His name is Bob	fair

Sing, Smile, Shimmer	fair
Peeples in the night	fair
Old Key home	good
Adieu tis love last evening	fair
Carry me back to old Va.	good
Goodnight, farewell	good
Lauriger Horatio	fair
Farewell my own	fair
Who is Sylvia	good
Ever of thee	good
Beautiful Isle of the Sea	good
Come home father	fair
Blue Abolition Mountain	good
They all have Jack	fair
I wandered by the sea boat shore	fair
Land kindly light	fair
Take back the heart	good
Old arm chair	fair
Love nest	fair
Leaves old sunset song	fair
I cannot sing the old songs	fair
Stonewall Rejuvenation	fair
Lily Dale	fair
Embarrassment	good



Jerusalem fair to good  
 Home again fair  
 Would I work with thee fair  
 When the lights are low fair to good  
 Masses in de Cold ground Good  
 Beautiful Belle fair to good  
 His bright smile haunts me still Good  
 We'd better bide a wee fair to good  
 Sailing fair  
 Tramp Tramp Tramp fair  
 Home to our mountain Very good  
 The Rainy day Good  
 Maryland my Maryland fair  
 Looking back [for farewells] Good  
 For you Best time yet Extra good  
 Alice where art thou Good  
 No one to your Good  
 One sweetly solemn thought fair  
 Sweet spirit hear my prayers Extra good  
 The Carrion Doves fair  
 Afterwards Extra Good  
 Nanay Lee fair  
 Out in the deep fair  
 Silent night Good

My Mother's Bible fair  
 Do they think of me at home fair  
 Life on the ocean waves Good  
 Go to sleep Lena darling fair  
 Farewell fair  
 Rosalie Good  
 Joyland fair to good  
 Because you're you good  
 Come oh come with me moon } good  
 is bawling }  
 Miss Murch songs  
 Mother Seal's lullaby fair  
 The Answer C Bohm - fair  
 La Vierge a la Crèche (Pentton) good  
 Les Madchons Klage (Elbis Liederschatz) fair  
 Alpine Rose (Sietari) fair  
 good bye (Jostli) fair  
 Das Rothe Sarafan (E. S. Bull) fair  
 O Vieni Con me (Goebel) fair  
 The party at Odd Fellows hall (Harwood Uni) good  
 The little and Red shawl good

Ask Craythman if he can't  
pour saturated solution between  
glass plates  $1/8$  apart & let it  
Crystallize - little run up by  
Capillary - blow cold air on, or pass  
Solid  $CO_2$  even 005 apart & chill -

Have drawing made of various  
of glass funnels, wanted them  
get Whitehall Twp phone &  
ask if they will do it - Dally to  
go down if not take it up  
with Corning - Libby -

Amalgamated brass for metal  
transfer -

How Dally getting on with  
Rotary screw -

Try more experiments with the  
glass tube - part of glass funnel  
flame on it -

Get Victor Misers -  
Rosary

Ask W with how Chas man  
sawt been so doing - was  
head factory -  
also pass to Michael  
Submasclos getting on

Drawings for glass  
funnels for Dally to  
go to W T Co &  
Corning -

Try experiments with  $1\frac{1}{2}$  inch  
drawn down down 1 ft to  
taper & very long  
using 2" tubing  
also 1 ft tapes #3 or 4"  
straight,

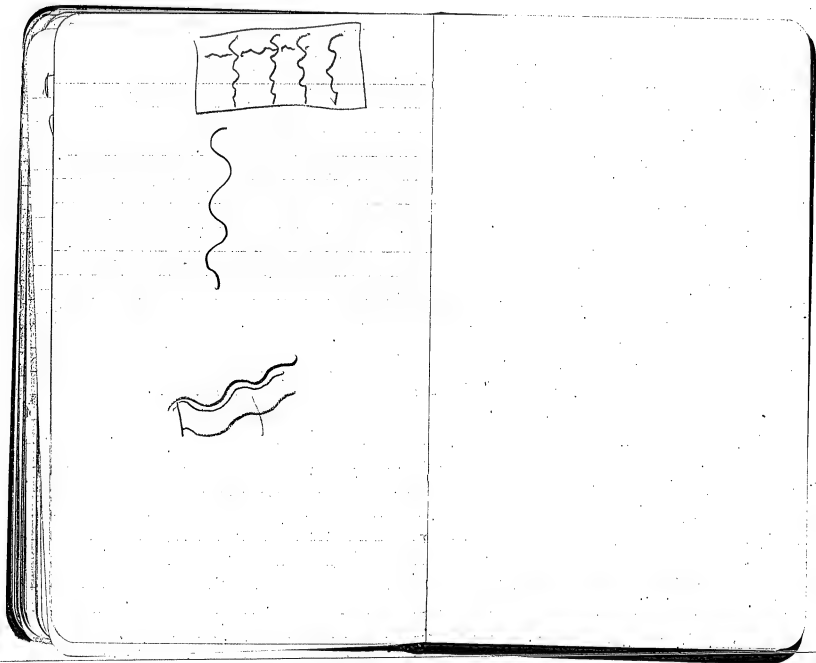
W with - about 110 lbs steam  
or superheat;

Blue print scale of v.o. es  
page 461. ~~grow~~ make same  
size as instruments -

Rec what Cow-hair felt  
is worth per yard the much  
Kind 1/2 inch -

Asken about Vacuum in  
Council records, ~~do not go too far~~  
in moulds till we are of the  
necessary -

When we get 10 or 15 good  
Records, Dup of Vic & Columbus  
Have Chamberlain about 200  
people compare & write ads  
accordingly -



Hg Salts Sol in 2HKLi -

phospho & thioacetate	Sol.	H <sub>2</sub> good precip
Hg iodide	Sol	"
Hg chromate	Sol	" with exp of H <sub>2</sub> - fair precip
Naphtho-lachide Hg	Sol.	
Hg Iannate	Trace	
Hg Succinamide	Sol	fair precip
Hg oxo-chloride	Sol	Trace
Hg oxo Cyanide	Very Sol	good precip
Hg Pot So-dide	"	"
Hg Succinate	"	"
Hg Sulphate	"	"
Hg Methyl Chloride + Ethyl Cl	"	"
Hg Oxycyano	"	large precip
Hg Amide - Propionate	"	"
Hg Malate	Sol	good precip
Hg Dio chloride	Sol	Trace
Hg Mercaptide	Exceeding Sol	-
" Saponinate	Very Sol	good precip
Pheny-acetate	"	"
Hg Bicarbonate	Sol	Trace
Thymolate	Sol	good precip

Hg + Ba Iodide Sol	Good precip
Thymol Nitrate "	Trace
Hg Naphthate Sol	"
Hg Ferrocyanide Sol	good precip
Potassiumate Sol	Trace
Resorcin acetate "	good "

try phenolate,

8 moulds for one cabinet

Time, Mould ready & pouring  
requires 1 man & labourer →  
1 day

Set 48 hours - then take out  
mould requires for the 8 moulds:  
 $1\frac{1}{2}$  hours

Seasoned 7 days -

8 pieces then ~~are~~ <sup>held together</sup> put in  
15 counting room of days

Then dried, 5 days -

Then put together, painted  
up a finished 1 to  $1\frac{1}{2}$   
hours average each  
cabinet,

Then usually ready read  
for decorating & painting  
crushing & screening  
plant,

Takes 3 weeks to make  
Set, before ready to work  
must be dried out & seasoned

1 man will require 8  
days to cast a number of  
parts to make one set  
of moulds -

Legal Dep

Adm. Dep at law + Salaries + Post

D Holden 96  
F Bachman 40  
H Larnahan 48

Investigating Police + other get evidence

F Maclebon 40  
A Clark 30

Draftsmen

Blawie 30  
Crawford 18

Clarks -

enter post app. + draft files.

Miss Kelson 23

Stenographers -

Handling complaints + prison

Clerks -

Miss Maclebon 18 - Holcomb  
" Slacks 15 - Larnahan  
" Korb 15 - Bachman

Boy 5 -

Miss Wosce 96

469 -

234

$$\begin{array}{r} 500 \\ 5 \overline{) 2500.00} \\ \underline{2500.00} \\ 0 \end{array}$$

$$16) 1800 \quad (30 \quad \begin{array}{r} 100 \\ 100 \overline{) 100} \\ \underline{100} \\ 0 \end{array}$$

$$\begin{array}{r} 195 \\ 90 \\ \hline 175 \end{array}$$

$$\begin{array}{r} 225 \\ 225 \\ \hline 1125 \\ 450 \\ \hline 5225 \\ 448 \end{array}$$

50

$$\begin{array}{r} 200 \\ 100 \overline{) 200} \\ \underline{200} \\ 0 \end{array}$$

$$14 \overline{) 10000.00}$$

$$\begin{array}{r} 7000.00 \\ 140 \\ \hline 7000.140 \end{array}$$

$$\begin{array}{r} 195 \\ 60 \\ \hline 1170 \end{array}$$

$$7000.140$$

$$\begin{array}{r} 2340 \\ 5850 \\ \hline 6084 \end{array}$$

$$250000 -$$

$$\begin{array}{r} 1950 \\ 975 \\ \hline 975 \end{array}$$



**Notebook Series -- Pocket Notebooks**  
**Notebook, PN-12-03-10**

The dated entries in this pocket notebook are from February-April 1912. The book was used by Edison to record ideas about business matters, experiments to be tried, and other tasks to be performed. Many of the items have been crossed out. Included are notes relating to storage battery tests, country house lighting, phonograph records and reproducers, the home projecting kinetoscope, the kinetophone, rectifiers, and ore concentration. In addition, there are lists of inventions to be patented, along with lists of songs (including some suggested by humorist Walt Mason) and recording artists. The business-related entries include notes about record sales, advertising ideas, legal and patent issues, new companies, dealers, and educational and other films, along with data on costs and salaries.

Among the numerous Edison employees mentioned in the book are assistant engineer John R. Anderson, Jr., chief engineer Donald M. Bliss; experimenters Charles T. Dally and Alexander N. Pierman; Frank L. Dyer, president of Thomas A. Edison, Inc., and head of the Legal Dept.; chemist Ignacy Goldstein; Walter H. Miller, head of the Recording Dept.; machinist and longtime Edison associate Frederick P. Ott; his nephew, chemist Ludwig F. (Louis) Ott; Brian H. Philpot of the Disc Record Manufacturing Dept.; and machinist Albert F. Wurth. The pages are unnumbered. Approximately 160 pages have been used.

Songs Walt Mason requests.

Hymns:

Rock of Ages

Yield not to temptation

What shall the harvest be

Just as I am without one plea

I need thee every hour

Sun of my soul

Nice Ninety + Nine -

Old Songs

Grankfeller Clock

Lorena

Old Log Cabin on the Leona

O Fair Dove O Fair Dove

Twos in Trafaiger Bay -

Tuesday Mrs Foxlee  
Mrs Wainwright  
Wednesday Mrs Halden  
Mrs Holden

Friday Foxlee  
Mrs Thompson

Find all where are those long  
glycerum Horns -

Get a B. H. K. Ring for  
Cret. K. 2 in. or 1.5 in. all  
Recessed in the ring  
with finger of Tuesday

Did 7 partial strips above 1/8 in. like  
plates -

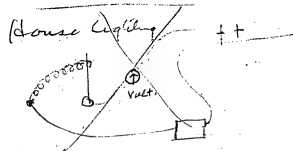
Walker Melby -

How about Jeanne Malmberg Carlwall  
Bernice Pasquah Lepherus  
Florence Wickham Carlwall  
Leonora Seales Lepherus all  
at Mrs O. H. H. H.



Horn

When the severed req fs in  
diff sizes come off test make  
cold test -



Hand Req for house - start  
with Res in + & rotate by hand  
at Voltmeter.

Why can't dealers rent phonos  
1<sup>st</sup> month, partner then buy  
records,

In Advertising new disc in  
Local papers. Make it one  
dealer one mention another  
dealer another, use all our  
ads with advertising <sup>all</sup> dealers

Get over 1/2 High Cowham  
fast,  
boxes in cabinet out steel  
instead wood

~~Chamberlain~~  
to ~~the~~ white wax find a  
Solvent which doesn't  
attack it then make fine  
solution of soft substance  
like wax & dip 1/2 coat  
it with film, we can  
track decoder with 2  
separate layers use last  
layer 1/2 to 1/3 of 1000  
mils thick  $\perp$   
or dip several layers 1/4  
of 1000 thick alternate  
layers with solvent up  
one inch does not  
cell state the other

Use dia 5/16 of 1000 mesh with  
center piece fastened rigidly  
around edge so amplitude  
limited so as not jump out

for stratified recording capsules.  
Use a wax than any alcohol  
of halogen, resin -  
or a Paraffine, or Spermaceti  
Essence of Lab. etc  
Asphalt, Paraffine,  
Phenol Resin -  
Ceresin - Japan wax  
Alcohol from Carnombe  
" from Spermaceti  
" " Resinway  
Stearic acid  
Rosin - Resin,  
Myrcin, wax or biswax  
resin or Alcohol  
Oleamide aciline alcohol  
Ammonia on Oil Almonds  
Diamyrcin-Lepidine,  
resembles Paraffine,  
Stirle, Kib, Violet,

Use ~~hard~~ memory of home  
Cellulose & measure  
distance to best section  
of Juncus with mean  $7/8$   
beaker -

Have a lamp made  
of paper boat twigs as  
long as the paper measure.  
an  
inverted one

My heart of the sweet  
voice, ~~Paraffin & Ethyl~~  
fine, ~~Frankfort~~ -

~~Wood bird Mexico (orchestra)  
for Diego's Mexican  
Carnival for M. songs~~

~~Swan Song  
Johnny Green (OK)~~

~~Overture from Tuller  
Have female voice  
in it - beautiful  
Sweet sound like soft  
long drawn out~~

~~Slabat Water Song  
Rozini beautiful~~

~~Rugolito  
La Donna e Mobile  
if it is perfect~~

~~Quocoda  
"Dance of the Hours"  
good~~

~~Steel nickel plated  
& welded~~

~~500 ml. Animal Wood  
Ducobla~~

~~Wally, the forvicia  
Mintia / fine -~~

~~Oh I have signed to  
visit me - forvicia  
fine~~

Duet in G of 111. good  
Roses & Violets -  
Valse en G - 111. 111.

"Dearest Norma"  
Norma by Bellini  
most beautiful thing  
I've ever

Martha - How so fair

Maestrina - by Weber  
"Happy Moments" very

Beautiful -  
also "5 cents that are brighter"  
fine -

Curry = "Toreadors song"  
good - Entered in my book

Make three way funnel  
use water & get 3  
funnels alike, & test  
one with others on

See how ~~Oxley~~ getting on

Write letter want to Tel  
Burchard's -

See state of Crane job also  
Extra Machinery for 1000 daily -

See 11 Miles about building  
Drying room like Arthur  
had a pair in ~~111~~ from room  
at works -

see Al Wirth about 4 weeks  
+ 16 sub-maxim clarity →

Make some very saturated ColPs  
Co5q. + 2 other very saturated  
Cobalt salts + soak 3 each of  
Reg tubes + also 1/2 tubes  
Each + work regular

Duplicate with double  
dip after KOH + wash of  
first dip =

Take 6 long tubes after  
10th Run Wash out well  
+ dry - then dip in  
Cone Cobalt Sal + Rinse

Of the several old cells  
you may take wash  
dry + dip in Cone  
Cobalt Salutions +  
Rinse

Keep Premium ~~key~~ on  
5/8 Recorder ~~funnel~~ -

White Cellulose  
grafflags one see how it  
goes - coating end  
with Rubber + then  
painting blue on end  
See Philpat progress

Al Wirth if he sees  
needs idea grafting on  
Cylinders +

Walter ~~cut~~ assembling  
1 doz. vials rep done  
to test at Lab -

Christmas if time come  
also amount ~~of~~ bills  
on hand also Reswaps  
Exp -

6208 results soak 48 hours



~~Record that Cornwalls Duet  
Sunday night~~

~~Waller Willey - alt  
Callow + ~~Heckman~~  
Negro ~~Wicks~~  
Laloy - my Samba~~

~~Let Brown go -  
Mushes on Crane  
lost 2 weeks -~~

~~Demonstrator to send to  
England - some  
Machin + Thelley -~~

~~RU 1500 - English just  
mixed see how run +  
LW~~

~~Drafting / pot reduction  
5 lbs 42. - ~~Richard Equity~~~~

~~Mushes - Feby Roll -  
bring to see heat + paracetic  
see if ~~Wicks~~~~

~~Japan / see Spraying  
go for 1936~~

~~Down cell - Alfeiler Paris  
mixed paper fibres -  
= Reinforced plain wall  
paper fibres + lat aunts  
fibres see maximum -~~

~~Cycle ~~Wicks~~ ~~Wicks~~ ~~Wicks~~  
way~~

~~Paracetic paper fibres  
re-reinforced - etc~~

~~Thin sections of wire  
next Cement Milky~~

Go over horse film box  
if see if desirable for cheap  
& then see C. L. for. Think its  
too expensive ~~unusable~~ ~~complaint~~

Write that Trasher Co. is ~~resistant~~  
How much he has on hand  
& what he will ~~pay~~ look for. &  
by Tom, & what will he pay  
for Cabot? -

Henry Fieldston up on  
furnace Fe 504 with Natch  
ditto shipping Hi 504 &  
Natch,

3. Walter Miller & Al White  
trucked cylinder blanks  
New grafting process  
for testing ~~physical~~  
second regarding

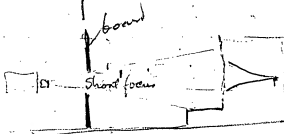
Dunville get Knight  
Mechanical Movements  
up at house also the  
504 Mechanical  
Movements -

Gold & Bliss why not  
camera for small film  
to photo our subjects ~~as~~  
we make them <sup>for tests</sup> save money

Pennant - try 1 1/2 galia  
Nica - clamped rigid  
also smaller one rigid  
clamp to work on pure  
Electrolyte of dia or nat  
of the Ruston -

Thom Cabot \$40. much  
Mouldy wire mesh  
Cement gun - gradually  
build up quickset  
no ~~system~~

Longhair Geomys were used  
 painted with figures to  
 catch eyes - + funnel behind  
 instead front, then 5 ft  
 away -



Rec of Ethel ~~at~~ ~~of~~ ~~the~~  
 cylinder for ~~of~~ ~~the~~ ~~same~~ ~~purpose~~  
 Ethel -

~~Genl V  
 Anderson  
 James son  
 G.W.C.  
 Walker~~

~~60%  
 15 -  
 10  
 10  
 5~~

~~Mendocraft draw up  
 Control of things~~

Crystals ~~of~~ ~~the~~ ~~same~~ ~~type~~ 20  
 need - 5 ~~of~~ ~~the~~ ~~same~~ ~~type~~  
 with the right quantity  
 use 0.6 ~~of~~ ~~the~~ ~~same~~ ~~type~~  
~~to~~ ~~the~~ ~~same~~ ~~type~~ ~~of~~ ~~the~~ ~~same~~ ~~type~~  
 Crystals if possible

Ditto of ~~the~~ ~~same~~ ~~type~~ dry quick  
 + quite to red - peroxide  
 Reduce with thin Nitrogen

Al Wenth. don't handle  
meters with fingers  
in any event, wash & dry  
well before silencing for  
Submissions

Go ahead make a  
Metal 4 1/2 disc of  
Columb. that cheap  
drawn

See L. O. Cabinet  
Experiments

Listen for records the  
3 White Records

Patent pending in  
Plastic Pans to record  
the 2 all kinds Records

Picman track light &  
have our angle stand scale  
without jump by standing  
away & read sec. of 8.000  
see Rugged tone

Exhaust that hot of  
H<sub>2</sub>O<sub>4</sub> will ignited 7% &  
have 2 O<sub>2</sub> electrodes &  
then Nitrogen - last -  
8% H<sub>2</sub>O Dry -

Edison to see how 20 mesh  
NiSO<sub>4</sub> acts when 21%  
H<sub>2</sub>O<sub>4</sub> poured over it -  
also change H<sub>2</sub>O<sub>4</sub>

W. Miller Marsh Miss.  
with Water Combined nearby  
up - good action -

~~try aluminum Mosaic  
plates -  
Synthetic (hard) shells~~

~~Silver Bell's in dark  
good initial treatment.~~

~~Do the Cobalt  
Cobalt low power and  
near contact. I run  
in a lamp~~

~~Norma by Bellini -  
Concert three pieces, also  
arrange for Opera school  
of song~~

~~Atlas Locomotive  
Diesel Engine of  
Battery Co~~

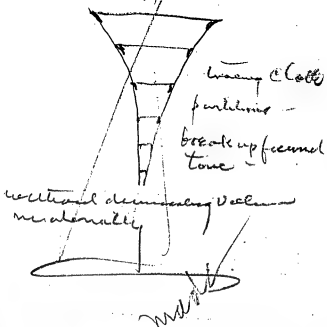
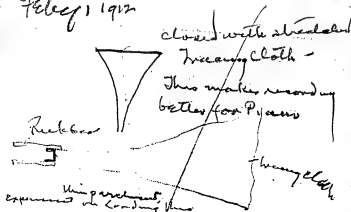
~~Photo orchestra & playtime  
250 <sup>copies</sup> ~~sell each morning? c~~  
Healy an artist & business  
Rep sea or at start of  
show play orchestra -~~

~~This gives enormous opening  
for films~~

~~Note 6 films go with  
Cable. B. B. Allen has  
good disc records &  
Victor at same time~~

~~Get a barrel of Reens  
Cement for reply on  
Cabinets -  
use reinforced concrete on  
Pittman -~~

Feb 1912



See see page 6 -  
"Mines Minerals" feel at  
Scranton - just prop ~~USE~~  
Loco no mention of Bl. ab. 1. 1

Porter also another Kapell  
Contractor Storage Pat  
Loco - also for handling  
blast furnace under -  
also in return shovel  
Quarries place of horse  
also take this up with  
local Coal Min. Washing  
Mills in Coal Region

Blair - shows we have  
large Horse Regulation  
or put 2, in, & split the  
horse is very -

Make some 10 weeks  
Cynthia Masoy  
1/6 or 1/7 1/6 or 1/7  
devised 60 minutes  
put Cynthia in parents  
& pour in hands -  
also another batch  
way did last night  
ditto drop with 100  
water in replacement  
Wash & feel low  
not a sign of improvement

J.V. Miller from  
Running Kettle

Philpat Blake  
Cellulose & paper  
at temp he press  
at -

Pills House Regulation  
for Day Current Policy  
in Paris, around neg  
Cost Res + regulat. by  
Res in Ckt of the field

Legal Dept get me up  
about 4 enter all appen  
from 1009 to date what  
for + keep it up every  
week -

See if Mendonsoff has list  
of times I searched  
to have Mendonsoff type them  
based to Coaction Review

Cafe des Bohemians -  
40th St & 6th Ave -  
New York

~~Filler press, regular amount  
Extra Wash to make heavy  
Loading Wt. use water only  
brought to make thin  
pulp then filler press~~

~~20% water off~~

~~35% "~~

~~48% "~~

~~58% "~~

~~60% "~~

~~70% "~~

~~all can~~

~~Dry on  
Hot plate~~

~~Measure water going in &  
out of pulp press~~

~~Worth - Pick up at  
once for daily cleaning  
desks~~

~~Patent vs. alloy Wood-grain  
Edgewood or pure W. or W. plates  
for Conductor transfers -~~

~~ditto on alkali for cleaning~~

~~Change Cobalt to 4 slots  
longer in morning to  
freshen on Saturday in  
Pittsburg - send to  
Pittsburg to account~~

~~Worth - Requests to  
Pittsburg and Subscribers  
to help get on track on  
cellulose -  
It's about 1/2 of the  
also Carl W. Blake  
all night sub readers  
on account of cleaning  
often on Pittsburg and  
Worth~~

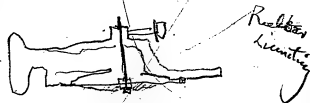


#4 ~~pl~~ Smith -

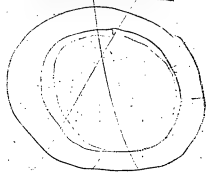
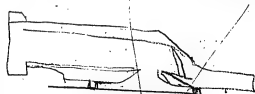
Start Camp on  
with 10 Different Roads  
1 Summit & Every  
Combination of various  
etc for a second  
Cylinder no to Quality  
& ~~Season~~

Dyn = Has 100 good  
App or little more  
to let it or so  
good Cams -  
do for you

March 10 1912  
Walter Miller use  
more than one  
clad use on  
recording



Thompson's coils not  
abandoned in getting rise  
of one horse regulator  
also 1/8 tube wrapped  
chug - also see Cal  
building a full overlet  
they call cloth Cal  
with Dyno Regulator  
with 1/2 inch 2 1/2 off -

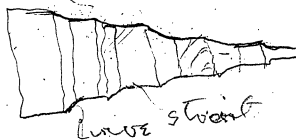
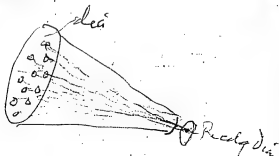


Rubber  
disc

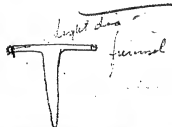
Diags, harden both on base of  
same fitt. on other on height  
so energy the same,

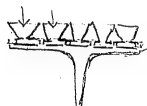
Glass funnel, only solution  
apparently, of funnel by  
covered in mottle, try  
def. cloth, paper etc for mottle

Add Aluminium Panicle  
to Our Cement Chalk  
get quick hardening



Dip record so leave  
 $\frac{1}{2}$  1000 hard on  
outside + main  
second very soft





Chamber  
1/2" spacing  
1.25" dia.

also without  
dia only water



Write Daily  
Use Sulphur for  
Nitrogen - also Copper  
Refract  $\text{Ca}^{++}$   
also try  $\text{CO}_2$  also  
Dry Nitrogen also Nitrogen  
Ox being in air



Cut plate  
glass horn

40 Mellow enough  
Accodes 1 Crook with  
20% Cobalt in Ni -  
special flake for test  
cells - or easier  
in solution with 20%  
Cobalt in -

Bliss why not 20 cell  
test showed or 40 Galley  
or 20 battery each section  
voluntary transform -

My Cunnage (Anderson)  
new motor 20 e.f.  
Rectifiers 10 cells on each  
30 amp rate -

See if Chalk Matogh will  
act as reedifier -

Ditto Tellman on  
Wet paper - dif solution



Use fountain pen + ball truck  
+ deposit varnish in line  
with fine screw + have a  
scraper connected to ball  
pen over a level device  
to constant thickness  
All automatics use a  
filler at Ext of Reservoir  
X -

Also a sprayer with  
ball + then put a pool of  
varnish at barrel where  
sprayer advances it to periphery

Prayer Soap by  
Noel Johnson  
pub Chappell & Co  
Sweet. my

Ash (phosph) of Cellulose  
Co buy scrap cellulose  
what do they pay  
also if he can express  
a record.

Reich + Egan -  
Build Small Electronic

Good - prep My - wash 7/15th  
Mason out, it goes then put  
along Rabbit + dry - possible  
Dry 3 lat. various amounts of  
excess of MeOH.

Try precipitating No 504 Nicobalt  
in a way with various amounts  
Zn 504 - dry - percolate  
then dry with ZnO in, then  
put in KOH + percolate ZnO out  
also adding Zn (OH)<sub>2</sub> to  
precip dry wash then dry  
& percolate ZnO out by KOH.

See if possible under  
1" objective to pick out  
Opal Ni Hydrate, white  
or green enough to make  
2 tubes of each -

Soak a row in Conc  
Chl Cobalt 48 hours  
precip by KOH, wash  
prec dry & soak  
again 48 - set  
up 2 tubes continue  
3rd soak get up 2  
tubes

Soak B<sub>1</sub> 48 hours -  
then 2 tubes, soak  
again after KOH strength  
48 hours set up tubes  
also - 48 hours (KOH)  
dry then Chl Co 48  
hours - at least -

See about improving our  
filler, Vats set and the  
stop drops -

See about firing Rubber  
bottom to Glass -

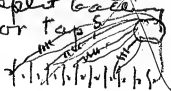
For doing away with Centers  
Relay in brass Reglin  
perhaps Tellurium. Or some  
other thermally stable  
Copper sulphate will  
change Res very much by heat

or a 50 ~~Watts~~ ~~amp~~ ~~pack~~  
will be sufficient

Goldstein makes 2 oz Uranium  
Hydroxide - makes 2 lbs  
for test.

Also have oxide of  
Uranium produced by  
H<sub>2</sub> or N present & used in  
Iron powder. It is reduced  
to a substance like metal  
& decomp. H<sub>2</sub>O like iron  
at Red heat.

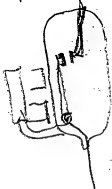
Plasma - Transformer  
secondary wound 4 sections  
12 amps 18 Volts. Each  
split each -  
or tap 5



press in Green No. 88,  
some Uranium hydrox  
Concentrated Sack 48  
hours -

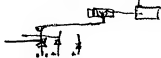
Rectifier -

put contacts in vacuum  
& magnet outside -



Theory in Bi herts von  
its sk with 2 rows  
but in cell only one  
& this not enough.

End on cell regulation



instead of Reg res slit in a  
out cells + instead of contact  
which would short circuit

End cells use amp levers  
swtch by air pump controlled  
by motor + motor or  
centralized relay



This does away with Res

& can be used in large  
installation other than  
house lighting -

Take up forming a Co  
to sell lighting outfit  
Diesel Eng etc battery  
for farm town lighting  
batteries in series, 500 volts  
only burn nights - 3 or 4 wire

Plus hardware + use  
bronz slave well  
could hold up to  
little ~~leaves~~ +  
reduce to all low  
wide little wagon  
no case board a  
standard model -

Regeneration rock tank  
45 hours come the salt  
precipitate - salt  
Calcalt salt -

Wyr about Double  
disc patent, chances  
of being successful

Patent Review Council transferred  
& liquidated

Patent after test Worman  
the other makes no fee. Wyr only  
Cobalt.

Patent Worrall's  
500; from Wyr placed  
Wyr as beneficiary

Make all improvements  
12" record for press  
of Double press patent  
being explained

Write Worrall about  
tracing cloth over Kroll  
fund stop savings

Write Smith change  
view in August  
P. Call a week 10 years  
more

On Blue Aluminum Eng  
Pathe type receptor  
for loudness.

See Worrall decide if  
we are to make all  
Worrall's submittals  
if Worrall can get  
patents think it safer



Ruin Campaign on  
 $\frac{1}{2}$ " or thereabouts  
diameters. deaphines  
 $\frac{1}{2}$  inch thick, no restriction  
but present perfectly  
at edges & use only  
the stretch of deaphine  
to permit complete link

Negative product 40%  
30% & 20% Co. cells  
reduced with the  $\frac{1}{2}$ "  
by H or N. Co. reduction  
Ox last & present  
conductivity

Look at  $\frac{1}{2}$ " & N  
product cells having  
about 48 hours for

When get reduced by H  
& nitrogen make sense  
~~from~~ Nectal & was instead  
 $\frac{1}{2}$ " as see Vullonges & Capacity  
Elo. D. Little Uran Ox reduction  
by H or N. reduced alone no H<sub>2</sub>  
and also with  $\frac{1}{2}$ " 20 30 wt  
40% H<sub>2</sub>O<sub>2</sub> -

How would porcelain  
cells to trays do -  
#

Improves filler, values not  
and no strip -  
also see if cant make  
cells as water along  
cells -

get another near a  
~~lost Rumpelhoff go~~

Max well to go out  
& establish Pans etc  
near dealers Reap here  
at it - also Dolbear  
& Everhardy Lake  
Coffers -

See if they have  
started ~~the~~ school  
of ~~Ballou~~ ~~near~~

$UO_2$  is the radical <sup>called Dioxi<sup>n</sup></sup>  
lacks ~~acts~~ like a metal  
drawing  $H_2O$  at red heat.  
It oxidized to  $UO_3$  or  $UO_2O$   
 $UO_3$  combines with  $KOH$  to  
form uranate, hence if used  
as  $Fe$  pale iron might get

high voltages like lead battery  
if  $K$  Uranate is used inside  
~~about~~

It may be both  $Pu$  or  $U$  pale  
can be made with  $UO_2$  oxide  
according to how we about  
it we possibly may get the  
high voltage due to combination  
with  $K$  on both sides as  
with lead +  $SO_4$  -

$UO_2$  is Uranic oxide - only slightly  
sol in water -  $UO_2$  or  $Dioxi<sup>n</sup>$   
is the radical, lower ox is  
green Uranous-Uranic ox - then by  
heating the  $Dioxi<sup>n</sup>$ , which loses  
oxy

The nitrate is  $UO_2$  compound  
It  $UO_2$  that looks show many  
of the properties as was thought  
at one time to be the metal  
Uranous by drop not soln alkalis  
on ignition it don't form  $U$   
 $NO_2$  oxide - This shows must  
start right in battery -

Wrote Goldschmidt make  
3 oz Uranium hydroxide  
3 oz antimony dioxide  
3 oz Uranic oxide antimony  
also any other oxides of  
Uranium hydrates +  
antimony

If  $\text{CO}_2$  act as  
a conductor  
then test the cell saturated  
with  $\text{CO}_2$  for a long low  
voltage tail, tells  
Uranium -

How about raising prices  
on those batteries charging  
for the extra extra also  
getting stuff prices for  
the regulator too

Soak  $\text{NiO}_2$  48 hours in  
a conc sol of an Uranium  
Salt + manipulate every  
way - if good,  
Try double soak -

Smith Fedgus a big  
Bismuth Cell low rate  
then try -

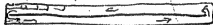
How would 10 water Na<sub>2</sub>S<sub>2</sub>O<sub>4</sub>  
which has its water very loose  
act with KOH, which procedure  
up for a dry small cell  
Mendeliev's way, its also  
is from 1904 to act

If Bi Uran Co act as  
conductor - make 2 tubes  
Each - dump  $\text{NiO}_2$  2g milg  
then 6 milg  $\text{CO}_2$  - 1/2  
flask - same with Uran + Bi

### Plating scheme

Plate flask with  $\text{NiSO}_4 \cdot 6\text{H}_2\text{O}$   
with Copper sulphate dropping  
in solution - Give strong current  
that plates Ni put on current  
too weak to plate Ni + common  
dropping in sol  $\text{CuSO}_4$  with  
current sufficient to  
plate it out - decrease  
in  $\text{CuSO}_4$ , run a little while  
with weak current till Copper  
out then stop current  
goes on for Nickel -

The electrode can now be  
fixed + solution moved rapidly  
a long electrode could be used



Later, can dump the  $\text{CuSO}_4$   
in all at once the moment  
the voltage is made low

If adding  $\text{CuSO}_4$  makes col  
too acid, then Cu anode + connect it  
at same time low voltage current  
is put on - This keeps acidity  
the same - If  $\text{CuSO}_4$  anode  
not good could power a Copper  
sheet anode close around the cathode  
say  $1/16$  + then get a fairly strong  
Cu solution while plating -

Reel - presser foot +  
saw, for splitting Ni sheet  
pan drum - then finish with  
a knife -



press foot -  
independent screw for  
 $3/4$  of thickness  
found balance  
with knife -

probably make some flake  
with 20% Nickel Copper  
in the Nickel -

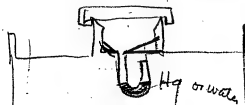
[ITEM(S) FOUND IN BOOK]

Manistery. ash  
N.  
Thomson A. Edison  
Croy, New Jersey  
Dear Sir  
Please send  
me a Catalogue  
of all the attachments  
and parts to a  
Sundark Phonograph  
& keep some for  
my machine  
and oblige  
Yours Truly  
Ed. Liborn

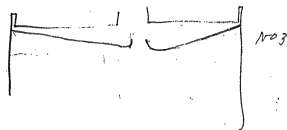
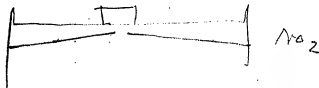
Where is the old Experiment  
 I like them - have it  
 digged up to go through a  
 series of Experiments with  
 I should also Copper  
 other metals, see the  
 Nickel of the. for long  
 test in ~~small~~ small  
 Cells - finally in large  
 Cells - put a Nickel on

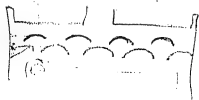
Put a Nickel on Exposed  
 on gas bubbles from Ni Cell  
 on principle of covering  
 the small bubbles to collect  
 into ~~small~~ big bubbles  
 & these so large they will  
 burst inside a can & let  
 pure gases come out.

Try this - A4-Valve heads -



Comes up in gulps





Rig up a glass cell &  
Electrodes & use glass  
devices see how small  
bubbles can be made to  
Cathodes & Anodes.

Perhaps a platinum plate  
with points in the electrolyte  
will burst more bubbles

Try in tube / anhydrous  
Cobalt Oxide possibly  
A new work

Have a talk with Dym  
w're covering up the  
small 2 or 3 now done  
or if rows & all necessary  
things to make it sure  
it will one day be the  
only film used

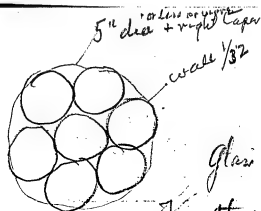
Be sure to have Dally  
try reduction of  $\text{Fe}^{3+}$  by  
 $\text{CO}$ , & displace it if necessary  
by  $\text{H}_2$  see how  
can get rid of using  
it

Harper make big  
Cabinet of 1/32 Iron  
See about large  
Hydraulic press

Would save a lot of labor  
 How well see if can  
 make considerable  
 lenses  $1\frac{3}{4}$  walls  
 with four sides inside  
 globe to take care of  
 big range voltage

Walter Miller had hand  
 in front of my pencil  
 pack etc, shows necessity  
 of having glass front  
 present when carrying  
 electric -

See Billie about getting  
 more voltage out  
 of Miller lamp or



glass  
 try this -  
 four  
~~1/2~~ 1/2" long  
 7 horns -  
 1/2 hole appropriate  
 Required

Some of the parts of  
 would be steel carbide  
 could be made out  
 of sheet zinc to get  
 sharp ornaments



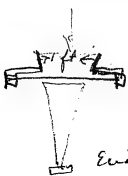
Large Cabinets,  
Fancy work (if wooden  
Cabinets) made from  
paper fibers + Cresol  
Resin, pressed -

~~—————~~  
Remember the Electric  
Welding for thin sheet  
Steel Saw at Siemens,  
use on Steel Cabinets

If Covarrubias Calomulco.  
wont sleep, may  
sell us N.Y. or Chile  
where Car Land Exports  
Car to hand pad

If expression of pressure is  
trouble with Cabinet  
blow up ~~the~~ ~~the~~  
precooled silica from Silicate  
the + heat to make rubber  
or go to Sand + silica Sand -  
+ hydrogen  $\text{H}_2$  + ammonia  
chlorine

Hold finger on piano  
string - use black record  
& study Meers record  
of the thing - also  
if can get a double  
with sensitive record  
on thing I mean



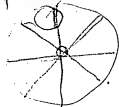
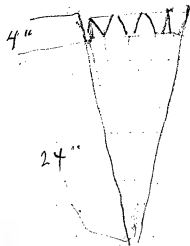
drum head  
stretched  
tight.

End funnel 5"  
clear drum head  
2 ft.

Put a muslin on  
second cylinder  
so can breathe with  
8/1000 mesh  
fill with 10/1000  
when OK - use ~~10/1000~~  
3/4 Dia very narrow.

Try cylinder on day  
+ the other day -

precip Carb. (from pure  
Chemical washed several  
times) get no agglomeration  
then dry ground with a very soft way  
to form a cylinder - vacuum box  
Caferroc and extremely colloidal.



24"

Silk stretching, little animal hair  
 was secured around edges &  
 use 3/4 of center piece  
 or 1/2 dia + use the stretch only  
 instead of the stretch of  
 a leather

Have low try unrolling  
 can by sewing the seam  
 then stitching away no  
 slack



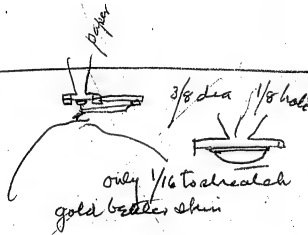
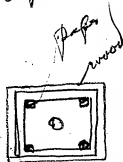
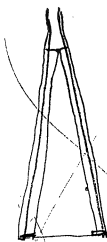
Good idea Dry cell storage

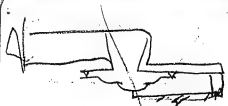


Storage battery  
 sheets of the  
 + iron pocket element  
 often packed in  
 battery for  
 All sheets change  
 but not full

Dry cell

Journal for Rocky  
 April 1 1912





2 to 1 + very  
sensitive disc acts  
 $1/1000$  - but changes heavily

Ask Slivinsky state of  
Argentine Agency  
& about disc a  
Home Pic machine

If we examine the micro surface of  
our funnel or consider atoms of  
glass it is at once apparent  
that there is enormous loss of  
amplitude due to reflection



Hence it is of the utmost importance  
that the inside of funnel down to  
short part should be perfect in  
surface - This can only be done  
by using perfectly polished  
glass - probably Sgs funnel  
with  $1/4$ " plate glass or  
borosil

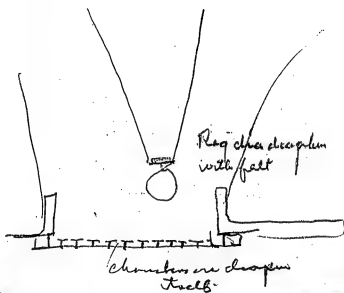


Think volume of weak sound  
will be greatly increased -  
if could be cast entirely glass  
bottom ground would be  
collar

Try coating glass in Vacuum  
H<sub>2</sub> heavy Conc CO<sub>2</sub> also  
Cu-Say - also Ur Salt.  
also - Double coat in Vacuum

If it is impossible to cut  
 1/4 french plate glass  
 down thin enough cut  
 it as far as possible +  
 extend with german silver  
 patches -

also might use a 12"  
 funnel polished + extend  
 to 36" with plate  
 glass



try 2 tubes no flake Repr  
 " 2 " Bi green  
 2 " Cobalt 1%  
 2 " " Conc Calc<sub>2</sub> 48%  
 2 " " Uranium

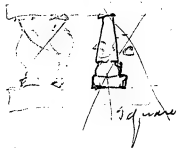
this will tell if these conduct

do all see if any of the  
 tungsten bronze have a  
 rectifying action

To get deep tracking  
 use rag wax turn off in  
 phone, then paint 1/2 of  
 low thick coat a  
 solution of something in a  
 very volatile solvent like  
 ether or Acetone - or  
 Chloroform

It's probable a 3" dia phn  
Telephone with Carbon  
Contact: be better & cheaper  
Resistor than levers  
Resistor in a frame like  
Quad a adjustable

Walter Mason for shapes  
sections of fancy fencing



H.W. system Resistor

Try whole lot of Uranates  
of oxides used in tubes with  
Sulfuric N. O<sub>2</sub> -  
Uranate Coated Ni lead Mn Fe  
& others - they may be conductors

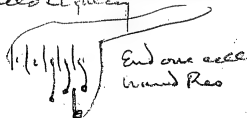
Smith as soon as getting  
C. & in quantity put up  
several test cells,  
def Heats, Li Etc for  
long test, dials different  
papers in tube & plates  
with vertical corrugation  
& new Fe 35° Fe -



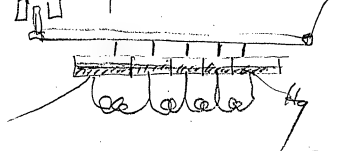
Auto. light  
Dynamo also  
battery 1 cell at  
time 6 times  
normal -

This present Chap Vullage  
200 miles & 2000 Vullage  
worn work commutator

### Acetic Lighting



### Home Light Regulator



Goldstein - Make  $K_2Cr_2O_7$  with  
1 2 3 + 5% Chromium

$K$  Chromite is a prep - don't  
decomp even with boiling water  
if  $KOH$  added to a Chromic salt  
the hydroxide combines with  
the alkali to make the alkali  
salt, its sol in excess  
it says but try it its a  
Chromite, The Magnesium  
salt don't deside in drops of alkali.

### Reginaldini -

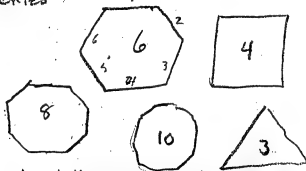
Ferric hydroxide combine  
with Sugar & becomes soluble  
in water, its a singular  
Compound, sugar here has  
to keep iron out of sugar as  
it forms this compound &  
Sugar will not crystallize  
possibly boiling later  
in oxygen vessels after  
KOH out with  $K_2Cr_2O_7$   
Ferric's come off of  
Carbonate. Ferric ox very  
sol in Ferric chloride

$K_2Fe_2O_7$  is used in strong  
 $KOH$  - possibly tube  
with Ferric hydroxide of glass  
in 33%  $KOH$  + 12%  $LiOH$ .  
would act a  $FeO_3$  is very  
unstable & possibly  
Eustathianis,

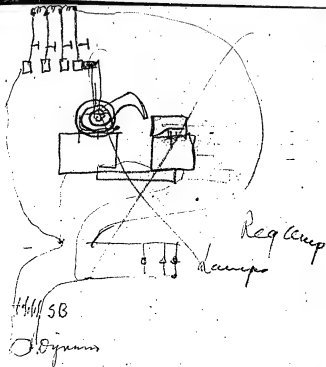
Galadstein,  
 Try some Experiments with  
 Nickel Nitrate K.

Treat a Rag iron with  
 Sugar water to dissolve  
 out the Ferris, then dry  
 + replace a little —

It may be that funnels  
 should vibrate strongly  
 so as to diminish large  
 amplitude + soften the  
 observation - Make a  
 series

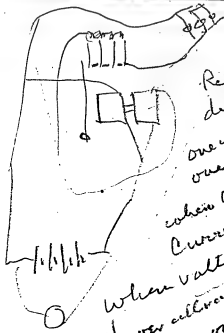


+ of diff thickness + length



put much on finding  
 solvent of Ferris on tubes  
 in neutral + actual sol  
 try reducing the  $Fe_2O_3$   
 by Hydrogen + then  
 other porous red iron  
 Dr Guallo made, think  
 its Comel now





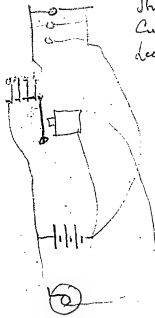
Relay differential  
one in main  
one across

when OK no  
Current

When Valt. increases  
Lever actuated &  
Res. thrown in

This also could  
very  
be sensitive

Plug in this  
with other lamp  
put in lamp  
circuit

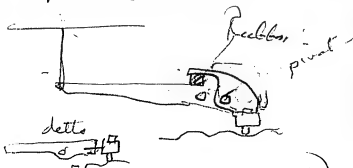


This permits some  
Current to flow &  
decrease with  
Resistance on  
at off.

Put a marker on record  
 Cylinders with lacquer  
 surfaces for recording  
 Asphalts + everything in  
 salt water, some viscous  
 slow drying oil  
 most suitable for  
 also diodes tubes of  
 Compaum use drying  
 covers, standard  
 bake ovens same as  
 seen at Evans house  
 this again up big field  
 never used

Even whiskey dose of  
 $\text{FeCO}_3$  lamp work  
 consumption about  
 mixed with binder like  
 grill a parallel in small  
 of waste + materials  
 with cover  
 + non cutting solvent

### New Idea



It will follow the record  
 independent of diaphragm  
 + is suitable for cord

Case hardened rails by current  
 right in the track - cooling heavily  
 with ceramic leather then  
 finally rubbing by oil + swab  
 air etc Or rails could be  
 made soft + case hardened at  
 mill in quantity

New ideas -

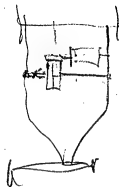
Make perfect films using  
a negative 50% larger than now,  
& positive  $\frac{1}{2}$  the size of present,  
film fine emulsion about present  
get 1000 ft into 500, to help the  
industry - it's bound to come  
why not later now -

Electric Loco - use the  
3400 amp cell with  
water jacket (10) double  
cell  $\frac{1}{2}$ " larger - circulate  
water while chg. & when  
disch. water of NH<sub>4</sub> cooling  
device - this is the air cooling  
patent water cooled  
cell -

Make C.S. with double  
can & run test with  
water cooling -

Plss. work up big photo meters  
for big disk machines -  
list of 500,

Plss. - I suspect lack of  
efficiency is the high speed  
Chair - heat on looking small  
Circle at high speed  
Present chair speed - 1000 ft  
min - 100 lbs strain -  
Can't best be used - at 3000 ft speed  
or 3 year gear remov. 5" long



It would not  
wear heavy  
not necessary

When get back take up  
matter of residual C8 group  
Cells & beads - ditto substances  
large number  
of go ahead -

C4 C6 C8 C12 C18  
C24 - <sup>vs. 2100</sup> D2 D4 D6 D8

Perhaps in regeneration  $\frac{1}{4}$   
gram of an acid in tube  
will. dissolves something  
of this permeated out  
then put in ROH. (Jelly)  
dry column put in acid  
water -

Regeneration by soaking oil  
ROH, then soaking in  
Ur Co Ag salts, 48 hours  
& then ROH.

Take up question of no  
more than photo with


about 5000 make a  
new one - Home is very  
deficient -

Make new line of  
Cuprous Metals  
Cheaper & use new  
replacer Diamond point  
Highland Horn

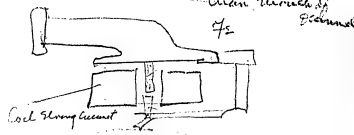
Try a Bell Receptor <sup>with</sup>  
funnel & a very sensitive  
receptor set of self  
induction volt wiper  
set big wire use  
Rever also for recording

speak to ~~DeLah~~ ~~stical~~ in  
 Iron shop ~~advises~~ shows us  
 of ~~backing~~ to iron work  
 shop ~~of the~~ ~~shops~~, etc  
 diths in Elec world  
 for Elec + Motor world  
 for all ~~technical~~ ~~inves~~

New - I find that with funnel  
 + movable disc in front of it  
 that I can by adjusting it near  
 to finish of funnel nearly  
 cut out high notes without  
 scarcely affecting the  
 low notes because the  
 wave length of high  
 notes are so short the funnel  
 is in shadow - This is  
 a great advantage ~~of~~  
 it has few sounds

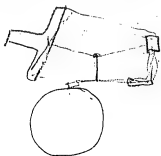
let her get ~~rather~~ make a  
 funnel 

This sound shadow could  
 be good for us work it up  
~~The~~ disc I used was 3" larger  
 than width of  
 funnel

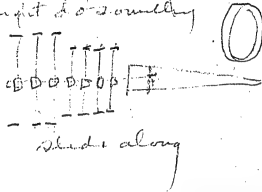


F2

foot thick of feather  
 allows passed ~~of~~  
 funnel nearly ~~with~~ out  
 base but don't hurt high  
 on contrary board ~~wipes~~ out  
 high & don't hurt base much  
 (85)



The large mass of the frothing  
have time to be set in & below  
by low water level set in height  
hence low absorption, the  
vibrations are very strong &  
hard - possibly the  
might do something



All bands about two weeks  
bearing - see if a sample for  
small truck to cell truck -

Regeneration may be that  
some of lead contacts in tubes  
is due to organic matter  
oxidized - perhaps soaking  
in  $\text{CS}_2$  KOH, would make a  
Xanthate, & then stirred  
out -

Regeneration  
Since immersion in Conc.  $\text{CaCl}_2$   
solutions don't hurt tubes  
Soak in  $\text{H}_2\text{SO}_4$  30 hours & then  
soak in  $\text{CaCl}_2$  & very small  
current plate onto the plates -  
~~then~~ deep solution neutral  
while plating  
This might be good for  
used tubes, try at 4 cell  
batch with  $\text{H}_2$  &  $\text{CO}$   
cell plates - forty being  
plated -

Malleable iron is  
spongy see if its active  
in battery - if somewhat  
Reverse it + oxidize  
then reduce it!

Try Spec. lensaw - the  
Mn or oxides in K<sub>2</sub>SO<sub>4</sub>  
will go out + leave Fe  
porous.

Sulphide of iron I once used  
Melt iron + add small  
percent of S + try alloying  
Ox + Reduce see if useful  
Some proportion carb. will  
might thing use white  
iron -

Good -

Iron Nitride - action of  
Ammonia on Iron or ferrous salt  
also sublimed ferrous chloride  
absorbs NH<sub>3</sub> at cold temp +  
forms ferrous ammonium chloride  
then when heated nearly  
to redness is converted into  
Nitride - form grey powder  
or laminae, sometimes white mass  
Easily powdered - use it at least  
least reduced to Fe +  
off NH<sub>3</sub> heated alone it  
grows off all its N - probably  
the Nitride itself (see 6-8)  
used direct in battery  
2<sup>nd</sup> Sup. Co. alk. p 751

N<sub>2</sub> Fe<sub>4</sub> - 12% only of N

If this Nitride is all we can use  
Fe<sub>2</sub>O<sub>3</sub> + pure dry ammonia  
gets away with hydrogen

Another Copied by leader  
in Sugar Hill, also  
RR Sec about 6000 lbs  
also diagram about Com  
in S & Central America

It is probable that  
 $\text{Fe}_2\text{O}_3$  can be reduced  
at lower temp than  
with H, if so the iron  
will be more porous  
& not pyrophoric as  
N will be in comb  
if it is  $\text{CO}_2$  cold  
displaces the H or  
containing the H<sub>2</sub> gas  
Cold do same thing  
Can use H<sub>2</sub> from  
cylinders or make it

from Sulphate & lime -  
or Chloride & lime

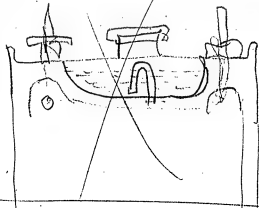
Caesium hydrox is soluble  
Why - 5000 lbs pocket used

For the little delivery way  
have false track or 2 sections  
with small wheels already  
loaded so when track  
comes in can be loaded  
quick - See below  
have 12 wheels how to  
load horse

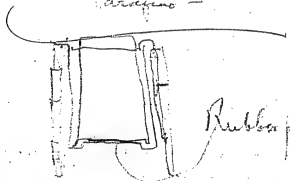
Why can't we use flour & pine  
for Calumity, there is no water in  
it & don't think it swells -  
also don't get gummed (swells)  
transfer of material by means  
to Cabinet under this word  
under pressure & heat



gla valves



Dip a new tube in machine oil  
& heat on test - to see what it  
will do -  
ditts glycerine -  
" Alumina  
" Carbonic acid  
" Paraffin -



Rubber pad

When get home Cable  
Benjamin ~~Careful~~ abt  
giving Sphero, Leman etc

Combs for Argentine -  
our stuff - bleed. Cas -  
Anderson pleasure,  
Genl Valdes a very small vessel  
also. 5 Africa, -

Take up Freyzer's letters  
in re. cop. of the  
same in my present.

Ask Sizer what proportion  
of the ~~total~~ ~~of~~ Co do  
we have

Σ

See what ~~all~~ the returned  
Cells ~~are~~ why -  
too many to suit me

In plating plates & Co  
from one work - The first  
layer can be done in same  
work by running out the Sol  
of feet in Cabaret plating  
Cobalt, then running in  
Ni + pulling in the Sol.  
till Co displaces -  
then go ahead -

Concrete Cabinet occupancy  
is bad think would  
takeing + whole so decrease  
to strong enough concrete  
Cement - This is proposed  
perhaps

August Dyer that the Combines  
to get, get over a great  
feature they want, Leice  
a month past is impossible  
with the receipt, to hold  
the postage of the Combines  
over all only actions

Dyer - about making  
regularly arrangement  
for Mrs. feeling for home  
Museum - 1st to keep  
them out & 2nd to get  
cheap films - pay for  
neg + 2 or 3 inches foot

Call Beed attention that  
up to April 1st the  
is still available from  
closed -

Aluminum is 19 1/2 c lb  
Cost small Cabinets -

Thinks direct asphalt  
for moulding is OK  
get some from  
Barbours Asphalt  
Co

Inquiries about  
Cluett, Bergin  
Tremont

See if Tellings is  
OK in Conc. ~~to~~  
if not can make a  
copy -

Sony slides moving  
only fixed ft each

See Haldell and  
talk over high seas  
of Submarine Cell -

Dupe of us about general optical  
printing using coarse grain  
fast negs a printing down to  
about 1/2 fine grain  
about 1/4 fine grain  
also more than 2 pic  
on one film Recovery  
film

Since little film is cheap  
why not use 3 pic red  
since a 4 pic like Gammox  
a product color pic

Reinforced ~~beam~~ nichel  
plated & welded -  
never met.

Specialty ~~bullet~~ about 100  
in Motor ~~unit~~ & ~~accl~~ ~~amb~~ -  
I didn't agree to this -

See ~~Bliss~~ ~~Ford~~ ~~Car~~  
Teals -

Boys to ~~find~~ ~~blue~~ ~~clut~~  
in ~~the~~ ~~new~~  
Ryder ~~house~~ ~~at~~  
how long it ~~was~~

Water ~~mill~~ ~~about~~  
making ~~last~~ ~~little~~  
Loudon

Get some to ~~keep~~  
Little ~~Coals~~ ~~shoes~~ ~~Tracy~~  
Dupty ~~June~~ 10

find out about ~~house~~  
batteries

Experiment on the ~~lines~~  
to ~~for~~ ~~loading~~ ~~what~~ ~~now~~  
200 ~~the~~ ~~more~~ ~~get~~ ~~to~~  
from ~~J.V.M.~~

See about ~~air~~ ~~in~~ ~~cracker~~  
only in ~~driving~~ ~~even~~ ~~nothing~~  
definite in ~~this~~ ~~was~~ ~~not~~  
a ~~drummer~~ ~~hole~~.

~~also~~

~~From Cerium hydroxide combine  
with  $K_2SO_4$  to form an  
insol salt in a solution  
of Sulphate of  $K_2SO_4$  is used  
to separate it from all  
metals -  
Perhaps a cell with  $K_2SO_4$   
as electrolyte would work~~

~~Goldstein, make 3 or  
4 of ceric oxide using  
4 lbs in tube also some  
 $Ce_2O_3$  hydrate,  $Fe_2O_3$  -  
also on  $Fe_2O_3$  -~~

~~Buy which film patent  
expire. -~~

~~Ask Dunlop of 2 lanes  
+ press so pic commands  
to see around more wires  
give perspective -~~

Arrange with Dunlop to  
take over Crystallog. man.

~~Goldstein 2 oz. only  
Dydimium Lanthanum  
Yttrium further rare  
never used any other  
with new plate holder -~~

~~Make out the Cerium  
in tube block so when  
not put on -~~

~~Bliss not using Reg  
auto wheels, wire, solid  
tires + put it above axle  
to lower to 2 little  
wheels for  $1/2$  in to  
make it a better ball~~

Restaurant table portable.

6 B3 for food

Spends to higher level  
display with the  
single lever



Use open grid



press down in + change  
slowly recieve fit  
will stay in

The mix of the Vermont will  
jump back to Coast course  
blank - then Vermont 4  
repress them transfer

Dunwiddie - make detail  
as enlarged as possible -  
also - enclose in special glass  
space + narrow up to  
nearly full area fly  
Mosquitos etc - 20

Higher deep machine for -  
Dip 4 mm blue into 2 min  
minutes to get cheap 2  
minutes repress -  
no labor charge

Dunwiddie about  
work the best neck bag  
done if he work  
afford time to 16  
week

Write several big Concerns  
for blanks & Customs of  
Inventions Expenses -

get a supply of Corn  
from N. H. H. - also  
from NY - ask W. H. H. -

N. H. H. Expenses  
Jun 4 1914 - see record -

Big Receipts, all accounts  
use small pic - also  
Outward.

~~Patent & Cell white  
cento fund scheme~~

Face - Selling Dept. found  
on fact. E. H. H. 1/2 wt  
of head body of  
Can add personal  
numbers. H. H. H. lbs  
ft to a truck -

Dolls H. H. H.

Water Wells what about  
Comm. H. H. H. H. H.  
good of H. H. H. H.  
take on H. H. H.

~~See H. H. H. H. H. H. H.  
H. H. H. H. H. H. H. H.  
H. H. H. H. H. H. H. H.  
H. H. H. H. H. H. H. H.~~

Maxwell - One adyt  
How for 1st time one can  
study what the nature of  
the great resistance is  
being over one in a  
country hall to flying  
a one cannot clearly be  
repeatedly exhibited then  
one in time will catch  
that which the waves  
of rest through the surface  
mean a possible beam  
of appreciable mass  
of the highest type. —  
a.c.

4) Another small film Colored red  
pinks & greens & white = violet  
" " " " " " = green  
" " " " " " = all color  
" " " " " " = all colors  
" " " " " " = all colors  
" " " " " " = all colors  
" " " " " " = all colors  
" " " " " " = all colors

Write & send for Purser  
Concentration

Yarn & aluminum hardware  
col in any description  
Conc by the 4K & 5 & 6 & 7 & 8 & 9 & 10 & 11 & 12 & 13 & 14 & 15 & 16 & 17 & 18 & 19 & 20 & 21 & 22 & 23 & 24 & 25 & 26 & 27 & 28 & 29 & 30 & 31 & 32 & 33 & 34 & 35 & 36 & 37 & 38 & 39 & 40 & 41 & 42 & 43 & 44 & 45 & 46 & 47 & 48 & 49 & 50 & 51 & 52 & 53 & 54 & 55 & 56 & 57 & 58 & 59 & 60 & 61 & 62 & 63 & 64 & 65 & 66 & 67 & 68 & 69 & 70 & 71 & 72 & 73 & 74 & 75 & 76 & 77 & 78 & 79 & 80 & 81 & 82 & 83 & 84 & 85 & 86 & 87 & 88 & 89 & 90 & 91 & 92 & 93 & 94 & 95 & 96 & 97 & 98 & 99 & 100

Rees - How about  
Depans for Home height  
cutful, 30 50 light size  
want see over soon



4 sider -



Up with Miller about  
Recording Lab here at Orange

Plus dribbling design  
Byham Recording &  
also Bronx at Orange

Pictamen -

Use acetone records, run req speed  
get Wherry pump - then  
double speed see if get them as  
bad - all with best double  
horn - then success to brass  
Also use another San Road  
recorder. Phrasing on notes  
full & pitch -

Try East with best of about  
seconds with various kinds of  
Removal to center hand is not in  
If get nearly good enough record  
films in tank,

Record Prints in tank,  
(C. Reg Saw Read)

Boil old black tube in  
sugar & then try sal water  
of iron try the No. 1 in cap. also  
Wherry etc. & L. L. K. N. K.

Single Candles as at US Army  
battery in Canada, 8 inch each  
or 2 about 6" -  
Good design for a  
Candle one with shade  
& mistake it.

Record photography take  
3 Secs. hand they  
will be weak -  
Superimposed to  
pictamen these

### Eastman Investment Account

#### Com recommendations

from sales agreement to which all  
must agree of thought left board directors  
& production

1<sup>st</sup> Don't like buying & sell to stay absolute  
+ go & make it, unless it is a good one - success too

2<sup>nd</sup> from Com. Directors

3 Rulings to doctors & Johnson

previous life of def

4 Cash Reserves

5 Charge at storage & also prices  
for slow) Reserves

6 Season, time & detail of trial  
down for repairs

7 Traffic manager & for all

8 Production manager for all

9 - Hunt long to Company -

10. Export management -

put some new tubes in  
rusting solution - also  
Fred & Art get the  
old tubes & find on hot  
plate

Write Wallace to draw  
up Recommendations for  
Consolidating trade with  
Cement

Dry Balls Good To  
use with pipe

Premium Lake across  
Ready Reserves &  
some funds to  
test a trial very  
successful Reserves  
for 100 days double  
3.6

Sea cabinet of Payne is empty  
& stored in on Schwanitz  
or Pinneron

~~Will go out to see some  
of the same things for  
himself the next day~~

Frank Exley on ~~with~~ ~~by~~  $\frac{1}{2}$   
Submarine to ~~5~~ 20  
to ~~10~~ 100 fathoms

See ~~last~~ ~~Exp~~ ~~by~~ ~~submarine~~  
but it is ~~not~~ ~~now~~  
located ~~at~~ ~~same~~ ~~place~~

~~Water - water~~ ~~only~~ ~~a~~ ~~few~~  
when it ~~is~~ ~~used~~ ~~in~~ ~~the~~  
Cell

Cell - no look out or  
physical - means pen &  
fly wheel frame of  
also ~~also~~ ~~also~~ ~~also~~ ~~also~~  
~~several~~ ~~light~~ ~~at~~ ~~times~~ ~~is~~ ~~used~~  
~~Person~~ ~~then~~ ~~is~~ ~~also~~ ~~used~~

Persons in ~~cell~~ ~~at~~ ~~times~~  
Reeds ~~is~~ ~~at~~ ~~times~~  
has a ~~little~~ ~~amount~~  
of ~~it~~

~~red~~ ~~says~~ ~~with~~ ~~tangle~~  
and ~~especially~~ ~~now~~  
~~is~~ ~~used~~

Ask ~~Don~~ ~~about~~ ~~Meers~~  
for ~~film~~ ~~of~~ ~~quality~~  
Alum

Are ~~light~~ ~~or~~ ~~unhealthy~~

Water ~~from~~ ~~the~~ ~~works~~  
long

Look in office building for  
Landscape plans ~~at~~ -

Also pks at several places  
see list file ~~at~~

Wish better day to work  
When not falling in snow  
Have trouble hanging  
up mail ~~at~~

Check out notes 2-  
50 HP motor 229  
See spreads in document ~~at~~

See Kammhoff - 20  
amp cell ~~at~~

Carroll White / Elias  
Send man to see  
engine in the House Dept.  
When Cant Carroll himself  
do it or is heavily ill ~~at~~

How about new Rents  
Living ~~at~~

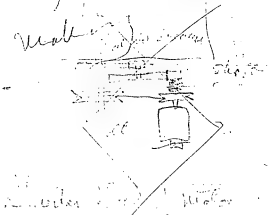
Carroll - says he's  
not available ~~at~~  
approx 10:00 am today  
status checked ~~at~~

Bob ~~at~~ / John ~~at~~  
see in ~~at~~  
see ~~at~~

with ~~at~~

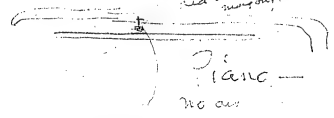
~~at~~ Will go up in  
park + get samples of  
hand-dipped in contact  
with Dept. ~~at~~

Change of the night brigade  
 ... Scotland ...  
 ... film ...  
 ... hills ...



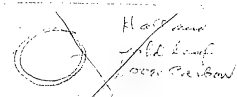
Release of ...  
 ...  
 ...  
 ...

See letters  
 ...



1210  
 No air

~~...~~



Has ...  
 ...  
 ...  
 ...

...  
 ...  
 ...  
 ...

What right do they use in  
want to take 1000 slides

Anderson about getting  
directions to see the  
St. Charles

Wilson - Change out small  
film - except for finished film  
No. 10 blanks - I suspect  
the loss of film in printing  
we will not know until  
if there is no check -

Keep at slides -

Sell dog lots

See house -

▶ Duplicate with series of  
slides - Separate Dept.

Smith, did C14 you tested  
have the water seal first  
Cell must have that put on  
& Re-tested -

Find out old tubes  
Soak out & boil glycerine  
Soak out & put in  
Extremely weak acid -  
Test for Capacity

Get plate No. then copper  
then inspect them &  
convert to copper anode &  
make it Galvanic Ni Anode  
& plate all the Cu out  
of solution then plate  
Ni again - This way  
no Cu in solution Ni is  
plated

Fred Bell - Don't need numbers  
U.S. Army post office - set to  
Coulson



After 60 days work see Weber  
about presses also handling  
Dore

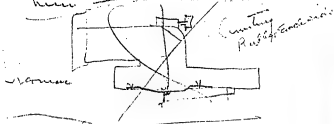
Tell Andrew that  
will soon put them 100  
1/4 headers

Mr. Bowman's letter  
Dore will  
& also in hand standard  
lent

Small responsibility  
when we actually have  
to deal with  
dealers who can be seen  
& obtained

Listen to Swan song (Johnny)  
Wood has music from Steffens  
Wagner - beautiful V.M. songs  
play it.

Why can't we teach our  
rector about Home U.S.  
so he can teach Cranley  
man + take in school with  
him



Mr. Thompson why will  
about lighting we don't  
use our Regulator on  
Dore

See if small film 3 Rows (patented)  
shift + no matter

in disc on andy dwell  
more on the great improvement  
in recording material for  
recording

Dilley of Nitride of Iron work  
good - Make antimonyite for

Dilley resistance some Cerium  
Hydrox in H, also some  
 $Ce_2O_3$  easily in Hydrogen

Smith - Hydrochloric  
Water cooled cell -

Make that Carbon rod for them  
also of graphite then used

Walter Miller  
Provan Albano what  
has been done - good opera  
vance -

Start Engineering for 2  
50HP Motor 225 V -  
for Shilput work Mission  
Glen Ridge, Bat Co  
Worben & Silas Lake

Make Citrate of Glycerol  
primary compound different polymers  
Citrate of heavy amorph simple  
Pycnobarbital Calcium a glass  
Biborate of Ethyl formyl glass  
Diamolydic phosphate various  
translucent glasses

Try 2 strips hooked in  
211K. 1/2 saturated with  
Litharge, Charge Pb deposited  
1 plate PbO<sub>2</sub> in alloy, with PbO<sub>2</sub>  
darker itself -



Send for ~~keys & go ahead~~  
with ~~discussion~~ ~~calling~~ ~~blat~~  
Henry in ~~unim~~ ~~list~~  
Cool ~~in~~ ~~the~~ ~~more~~  
A. ~~others~~

Moving pic ~~trip~~ ~~heavy~~  
in ~~2~~ ~~long~~ ~~for~~ ~~us~~

Send ~~him~~ ~~copy~~ ~~Contra~~  
Pac ~~in~~ ~~Co~~ ~~Latter~~ ~~2~~ ~~years~~  
We ~~don't~~ ~~for~~

See about getting returned  
films from ~~Japan~~ ~~films~~  
Co ~~others~~ ~~others~~

Write ~~him~~ ~~down~~  
on ~~ground~~ ~~travel~~ ~~bill~~  
~~with~~ ~~the~~ ~~of~~ ~~the~~ ~~by~~  
1/2 of ~~the~~ ~~small~~ ~~con~~ ~~struction~~

Kieffer - if we can get Kell to settle  
in ~~the~~ ~~way~~ ~~that~~ ~~we~~ ~~had~~ ~~af~~ -  
Bill ~~not~~ ~~over~~ ~~the~~ ~~same~~ ~~in~~ ~~our~~ ~~imp~~  
- get Kell in ~~the~~ ~~same~~

Get ~~the~~ ~~idea~~ ~~of~~ ~~column~~ ~~hand~~  
dry well about  $\text{CO}_2$  if not  
if water cost ~~in~~ ~~the~~ ~~same~~ ~~way~~ ~~as~~  
it ~~if~~ ~~the~~ ~~same~~ ~~way~~ ~~as~~ ~~with~~  
NABCO ~~water~~ ~~cost~~ ~~it~~ ~~also~~  
 $\text{Fe}_2\text{O}_3$  ~~cost~~ ~~the~~ ~~same~~

Find out how our negatives  
are stored ~~in~~ ~~the~~ ~~same~~ ~~way~~  
international ~~in~~ ~~the~~ ~~same~~ ~~way~~  
how ~~the~~ ~~same~~ ~~way~~ ~~as~~ ~~with~~  
the ~~same~~ ~~way~~ ~~as~~ ~~with~~  
also ~~the~~ ~~same~~ ~~way~~ ~~as~~ ~~with~~  
the ~~same~~ ~~way~~ ~~as~~ ~~with~~  
which shall it be ~~the~~ ~~same~~ ~~way~~ ~~as~~

~~Books - look over  
Bought for review~~

~~Harper - furnish tools  
to review these cabinets  
of actual & are making  
ideas but cut out language of books  
to be given to the student~~  
Get new for classroom  
lighting

Try that treated separate  
of Corden etc. in book review  
give brief class on common  
KOD

~~Get books see ~~for~~ Worth  
New Receipts~~

See if home looking for it  
OK - How soon Catholic occur  
on printed - get small US  
map - found all territory

~~See how with the good machine  
Coming on ~~little~~ Becker  
paper review~~

~~Album with 6 sections, each  
form - open & look on edge  
for number - ~~for~~  
popular & famous for each period  
Vol 1 2 etc.~~

~~Legal Dept Ore new system  
When will be perfect & ready~~

~~Journal what has been  
done in the art of the law  
for Phil got new ~~system~~~~

~~Program see how far he  
can move the number of  
Cities with some new  
national news story  
news to be~~

Header  
Filter Chamber for  
Blind pet Room  
to long 10ft of  
22ft wide

Wall, Mill, ice  
Pardon, ...  
~~...~~

Talk with student ~~...~~  
best way cut out blanks for  
forming ~~...~~

See if ~~...~~  
small disc ~~...~~  
model ~~...~~  
to get to get it on his 1st  
Museum ~~...~~ will be  
this way

Blas - Table Xamp -

With ~~...~~  
take out ~~...~~  
& look at ~~...~~  
when not possible to  
at one ~~...~~

Ask Miller what Chalm  
gone to study for if he  
study - about he be  
used with Laban -

film tears, samples  
are you pulling them  
out this way?

Patent number on  
Edge of P. record

4  
See showing  
also 5 with 1/2  
with 1/2  
with 1/2  
with 1/2

Make to pocket some new  
Red 3, 1 spot on the metal  
+ some other stuff  
Want to see

Goff - why not a reel  
in box + why ~~reel~~  
take from right stop  
length + ~~length of groove~~

Legal Dept. about  
674 counsel, patent  
why the delay -

See Wilson who goes to  
tent + see ~~young~~ spec  
man Harry it

Make book holding  
6 or 8 ~~equal~~ discs  
inside book -

~~Weak spot~~  
in tube repeat.

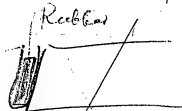
~~Q. All - Can't we get  
bottles Carbon for  
Baby and change  
too much. Cost  
Carbon - could  
get all funds -~~

~~Grease will not absorb  
drawing of stand -~~



left out before put  
raccoon in -

Strip gold cloth soaked  
chloride and burnt on  
surface, Magnesia of  
Sachs and chloride ignited  
the mixture strip and  
of all chloride ignited



Copper - spikes it  
Springy -

Acc. of various friends, Tempel  
Comm. (not) Col. Condemna  
Julia Caracci - Pappas, ...  
Cappas, ... Caleja  
Thorquini, ... Gagliardi  
Sobasso,

Worth Sick off dirt  
from disc unit before  
I go on tape

Heat Dials, ~~by~~  
by Electric wire  
instead of steam

Wash handles on bag  
disc all ~~to~~  
why not



Stop ~~3~~  
3 orders so far 1 new

Round in ~~to~~  
plates & brackets  
with ~~to~~  
get up sample slides  
& labels

With new wire contact on  
disc try sealing medical  
tommy's on washed disc  
wash ~~to~~ ~~to~~ ~~to~~

Separate in our ~~to~~  
Cobalt from ~~to~~  
for political purposes

More ~~to~~ ~~to~~ ~~to~~  
of our ~~to~~ ~~to~~ ~~to~~  
for ~~to~~ ~~to~~ ~~to~~

get 2 ~~to~~ ~~to~~  
last month, & some  
old ~~to~~ ~~to~~ ~~to~~  
Fortip ~~to~~ ~~to~~ ~~to~~  
& others

When making tools for  
50 days deep, best to use  
stiff iron blades across  
sides, - also back wood.  
in D. or some of the wood  
of *Salix* etc. & pine

~~Boat  
has to be made up & down  
a track for 10 days, the rest  
all made with iron, steel,  
W. or the water, etc. etc.~~

With *L. Cyprina* + *Nautilus*  
for all, *Chamaea* etc.

Daily show-up / Screen  
Mesh-on picture

452-  
5102 - Daily 53. fair  
5110 w. shells all in  
Deep Cold test (ground) 7%

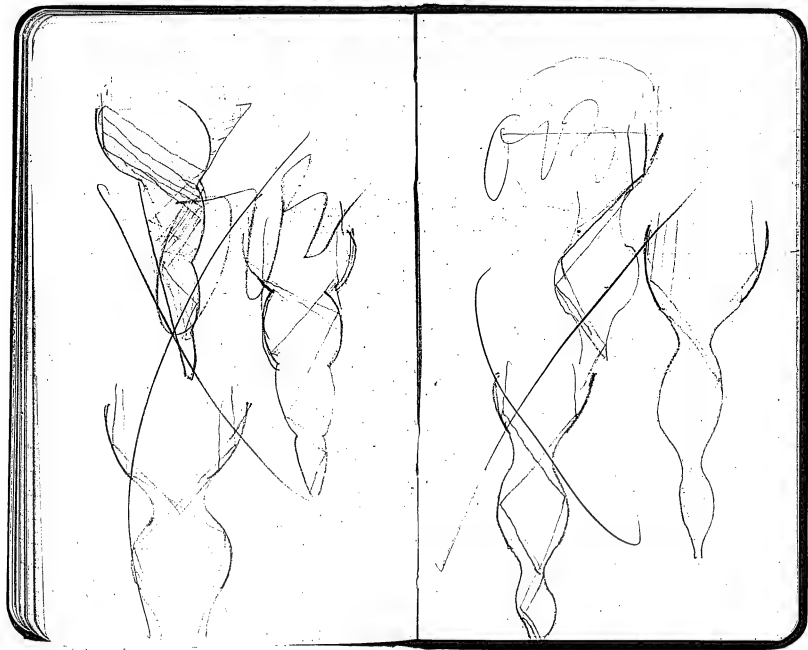
With *Chamaea* submersed  
blanks w. with very  
pressure some of  
*Elythia* *Coeloc* etc

~~in water (all out)~~

~~Debraj Dharma  
Reconstr Co. Co. 2 -~~

Compt render 64. 603

La Chamaea Count R  
102 1243 1886





Mail letters ~~X~~ Mason

~~Handwritten notes, possibly related to Mason, mentioning "in air" and "stomach".~~

~~Handwritten notes, possibly related to Mason, mentioning "drought" and "very gentle".~~

~~Handwritten notes, possibly related to Mason, mentioning "also also" and "document".~~

Harry - Did Read over ~~any~~  
the whole of ~~my~~ notes

Two 40 lb Bags of Potash,  
blends sold, with packed  
plan pressed out Corr.  
T. def. & expenses also  
discharged excellent day

Bergeron's Doves pay  
Sewell any salary -

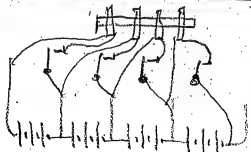
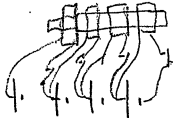
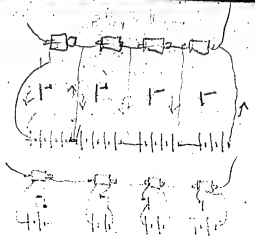
Seetingham almost hand  
Records for taken to  
get benefit of new Record

See full those I'd brewed  
songs that were marked  
fabr of good are in  
the Cong Bk. -

Goldster - \$98 - nothing  
same old old one  
Sweetapple;

Fred Saldefung Miss  
man 17 what  
ought get more -

Telephone Slurvant  
how the getting along  
on Conspicuous medals  
bz no clip up on  
time, #



Biograph	6	140	656	49
Jal	7	186	209	34
Easaway	5	989	000	
Kelom	5	316	832	
Kleim	4	525	174	29
Lubin	5	933	624	
Melin	1	542	857	
Poché	9	704	106	31
Selap	6	421	351	
V. Laph	8	775	371	34

### Cost Cells A4

Material	4,68
Labor	1,34
Fac. Expens	1,97
Assembly	53
Overhead	313

10 months -

Lowest possible receipts 10,26 all dis  
 based on 87923 Cells assembled  
 of 8792 month

Cost Reg film for 1.07 ft -

100-

60 sheets 15/1000

120 - 717.5

240 - 737.5

480 - 778.75

960 - 937.5

1920 - 1687.5

3840 - 2343.75

7680 - 11718.7

15360 - 1058

215360

7680

9 times

MnO

PbO - } Sol

Uran O<sub>2</sub> - }

CoO<sub>2</sub> - }

NiO<sub>2</sub> - }

BiO<sub>3</sub> - }

AgO - }

ThalO<sub>2</sub> - Sol

Phosphates, Manganese  
Anderson  
Great Vehicle & Gas Elec,  
W. W. W. W. W.,  
Peach Car  
Lobby Car

40-  
600  
273.00

60 lay down  
5-2200  
15  
80  
31  
777

155  
140-925

300 9250 (31)  
250 9250  
250

24  
90  
2700  
120000

140-  
30  
77

185000

8) 140000  
300 17500  
15000  
2500

(58)

11500  
20  
30000  
35000  
27000  
21000

360) 35000 (37

2400  
330  
6  
900  
406  
1219  
21  
12

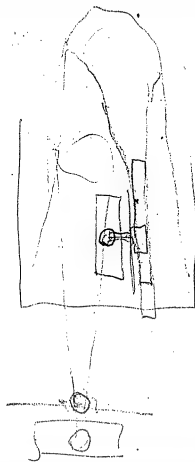
15000

- Marmals 90
- Sollum 75
- Wilson 150
- Welles 75
- Farral 60
- Dyer 300
- Hudson 90
- Philpot 100
- W. Wells 150
- Wilson 150
- Schau 75
- S. Lawrence 90
- 75
- Phoenician 60
- 100
- Greenbaum 100
- Credit Bureau 75
- Prong 100
- Corveta 65
- Polgar 100
- Polgar 75
- Polgar 75
- Richardson 75
- Schoolman 100
- Stevens 75

2480

$$\begin{array}{r}
 16 \\
 175 \overline{) 4080} \quad (22 \\
 \underline{350} \\
 580 \\
 \underline{560} \\
 20
 \end{array}$$

$$\begin{array}{r}
 2 \\
 175 \overline{) 3200} \quad (18 \\
 \underline{175} \\
 1450 \\
 \underline{1400} \\
 50
 \end{array}$$



$$\begin{array}{r} 38 \\ 600 \\ \hline 228 \end{array}$$

20 000

$$\begin{array}{r} 30 \\ 200 \\ \hline 600 \\ 740 \\ \hline 1340 \end{array}$$

$$\begin{array}{r} 37 \\ 20 \\ \hline 74 \end{array}$$

$$480 \left( \begin{array}{r} 20000 \\ 19200 \\ \hline 800 \end{array} \right) \left( \frac{1}{2} \right)$$

$$\begin{array}{r} 550 \\ 900 \\ \hline 4950 \end{array}$$

$$1340 \left( \begin{array}{r} 18 \\ 2000 \\ 3600 \\ 2600 \\ \hline 9000 \\ 8000 \\ \hline 11000 \end{array} \right) \left( \frac{269}{2} \right)$$

270 Lk

2

$$1340 \left( \begin{array}{r} 17 \\ 2000 \\ 3400 \\ 2600 \\ \hline 9000 \\ 8000 \\ \hline 11000 \end{array} \right) \left( \frac{253}{30} \right) \left( \frac{360}{10} \right)$$

60

$$10 \left( \begin{array}{r} 74 \\ 48 \\ \hline 122 \end{array} \right) \left( \frac{480}{12} \right)$$

$$16 \left( \begin{array}{r} 32 \\ 220 \\ \hline 252 \end{array} \right) \left( \frac{320}{252} \right) \left( \frac{1}{2} \right)$$

49500

$$450 \left( \begin{array}{r} 12000 \\ 10800 \\ 9000 \\ 7400 \\ \hline 4230 \\ 287 \end{array} \right) \left( \frac{2160}{2160} \right) \left( \frac{2160}{2160} \right)$$

$$\begin{array}{r} 2160 \\ 864 \\ \hline 3024 \end{array}$$



**Notebook Series -- Pocket Notebooks**  
**Notebook, NP-12-06-04**

The one dated entry in this pocket notebook is from June 1912. The book was used by Edison to record ideas about business matters, experiments to be tried, and other tasks to be performed. Many of the items have been crossed out. Included are entries relating to salaries, costs, advertising, musical pieces, recording artists, and composers. The experimental notes pertain to disc record production, phonograph recorders and cabinets, storage batteries, and electric vehicles. Among the Edison employees mentioned in the book are H. Grimes and Brian H. Philpot of the Disc Record Manufacturing Dept. and Walter H. Miller, head of the Recording Dept. The pages are unnumbered. Approximately 40 pages have been used.

June 4 1912 -

~~Piercing balance with  
soldering disc in use.~~

~~Listen against  
Luceriti - marked  
Luceriti, obj by mistake -~~

~~See Bensen + honey  
Gammes Silver Plate  
also fallen up from  
other lifts - Lake Moore  
over.~~

~~new  
put strips ~~back~~ of Libe  
at in Sahl in with  
750y and as under  
try one first + see how it  
sets, find clean in ~~to~~ hot.~~

Of list of things that  
can be used at proming  
go over records, assign  
Dieton more carefully  
& Re rate, Hars)

Ask our French Cabinet  
designer if he knows any  
Wood Carvers for our  
fancy work.

Harpas, How about Tools  
being pulled and used on the  
inside info Cabinets etc

Don't forget the Office.

Look up list 2 records of  
the original version & see  
them separately & especially  
when Bombardier & at the  
speed of our demand can  
really work them

Suspect Philpate dept for  
relevance,

Write out criticism of  
for Walter Miller

Try the short brittle  
smell for knocking off  
fixed dept on Copper  
plated Metals

Get some brass screws  
100 each roll out One  
direction tell that their  
Copper plate 1 or 2/1000  
& Revell 250 on Tell 500  
next,

Bring Cabinet back  
from library & continue  
the tools of new Cabinet  
to bring out details

See what Gunn gets now &  
raves him, some

See Hows disc Brooks samples  
getting on - for Johnson  
show

Ask Wilson about NY office  
where to make show, he might  
go over with him in pen  
stop & decide if he returns

Moore about tools for chapters  
~~disc~~ etc for new annual  
register so they can send in  
parts,

Moore  
See about putting Coase  
picks some of big things  
lever on disc below machine

See progress making new frames  
for No 2 vehicles

ditto about getting wider  
tire runs for ~~it~~ -

Patent sample Dynam, checked  
over & switch to run 3 & 3 -  
start 6 - Hurry this in  
office - add on an  
automatic throw of  
switch so every 10 miles  
it throws as itself -

Columbia 1081/A.

Claude A Cunningham

He is a good singer, good  
range, very little tremor

Wally, what about him

~~Billie Grooms.~~

~~Debrau Compt R 64 603  
23 Chalklee 102 1275 1786~~

~~Legal Dept without safe way  
Curtis & keep on paper in effort  
to delay and long the process.  
file in some foreign to under  
Kavanaugh, several - 1980 - 1982  
or how~~

~~5100-1 1795 2677  
1980 2900~~

~~Mozart Requiem  
Chapman Fisher March~~

~~through second  
round further of more  
around might have  
on telephone success  
was of emergency  
Syracuse~~

~~Dividing Dept of  
date 1980/1981  
Contract Salary  
to be 1980 age  
New York State  
Elisav Goldstein  
& personal~~

~~The  
Handwritten Large Just  
like was.  
My heart was faithful. Bless  
son~~

Instrumental

Like Ave Maria

Nachstück No 3 best

Schumann -

Polka Mazurka from the Mend

Chopin " "

Dead March in D minor

Meditation Bach - 5

Asa's Death Grips

War March of the 1st  
by Mendelssohn

Nocturne in E-flat major  
Night Opus 9 by  
Mendelssohn

Wilson about 11 o'clock

for 10 o'clock 2.50

20 o'clock 2.00

30 o'clock 1.50

50 o'clock 60-

beyond what we have

Work out No 2 selected  
Spring selection of music for the school  
it will save time & trouble of space

Here beginning  
of the book  
beginning  
of the book

Prelude Arabesque

by J. S. Pizzetti

Prelude

by Rachmaninoff

double the amount  
less the amount

~~Frühlingsvögel  
(Robin of Spring)~~

~~by Lindling~~

~~Bright head and cap & continues  
finger left slow base  
in peaceful ok for phow~~

~~Reaches down to the ground  
not good. Long neck  
sawyer, & others lack  
of conventional song & range  
of notes~~

~~Young of the bird~~

~~The above Lack~~

~~Pied Rubenside  
where  
Pied Rubenside~~

~~Vireonidae (song) by  
by Elizabeth Nason - very melodic~~

~~"The Cricket on the Grass"  
'Ode to a Grasshopper'  
by John E. Stewart and projected  
in Pheasant & Foxglove~~

~~Cromelin - W. E. G. P. P. P.  
Mornit & ally~~

Waller & Charlotte, Helen  
to give evidence pitah to  
help suggest out what  
evidence to carry out -

Try Chronic, Backs near  
either it def. problems  
instead. All same  
distances so not  
but so much & make  
so many about deep  
marks -

Make list of tools,  
discs etc for small  
disc machines  
List of 2/28 & go  
for it, ~~get~~

Helen what changes  
must be made to adapt  
Cement Compressor to  
Philpot work & also adding  
Motor on to drive -

Machine for testing  
disc records defects  
in any of the  
Worn & index so can  
mark the discs then  
listen. Kears allow  
to look for defect.

Wet paper was pasted  
to form dry this  
Keeps it flat then  
shd be ~~to~~ dry on  
frames -



~~Lacquer Indian Dress  
after Minstrel shows off  
to give her vocal showing  
Soprano in grand  
style~~

~~There is a lovely garden  
by St. Raphael.~~

~~"Margaret" a hymn.  
The Crucifix by Brame  
a duet.~~

~~Violin by Wright - excellent~~

~~The Minstrels are telling  
a song by Beethoven~~

~~Cantata by Rossini~~

~~"Il Pianto d'Armonia per  
la Morte d'Orfeo"  
Voluntarians 14 yrs old~~

~~also Cantata "Il vero Omaggio"~~

~~L'Anquis, felice,~~

~~La sacra Alleanza~~

~~W Bards~~

~~See Badgerum today  
yards~~

If see Elvans on Morrow  
take up subject bag  
Rolls in direction of  
W. on Thompson

Thick oil on road  
next to Phelps  
leaving from so  
no trust

~~Road from Crystal Lake to Gulf  
grounds~~

~~Road from Crystal Lake  
to left~~

~~Road from Crystal Lake  
over with next valley  
on top hill to left~~

~~Summit of Clines to  
Washington Valley~~

~~Valleyburg road to McBurn  
turn off to right at  
base of mountain to  
stop at H. Hill  
turn to left~~

~~Little Falls RR up hill  
to Reservoir & continuation  
on Missouri Road~~

~~Get Caldwell record in  
reform Dec. 6-~~

~~Tell Wilson double  
scene in film-~~

~~See if they break  
Vac on sublimator  
Masters then  
Cotton~~

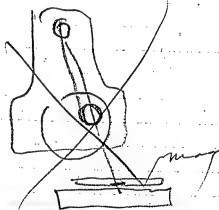
Paestrina's Stabal Water

Want Kozloks  
Voice - (woman)

~~See How Thompson  
likes Model Rack~~

~~Cable Connection of  
Martini's Close~~

~~Induct on iron  
Cubert disc  
put magnet to pull  
down marker~~



~~order of Killers to  
Meake location 3  
vrows 2 Aug 1  
not copying~~

~~find a stain that  
will show from traces  
in Clenks~~

~~Walter Brockite~~

~~Viola + Tenor Solo  
possibly very rough  
or Piano -~~

~~Contralto Sophia Solo~~

~~Cello + Bassoon Solo~~

~~Tuesday - good session  
upper 24000 ccms per  
sq ft. Alt very high  
speed & high density  
on W. side of  
Strong cleaning -~~

~~See Trans Amian Electro  
Chem Soc -~~

~~Schubert's Unfinished  
Symphony, a part sung by  
the Cellos against the  
throbbing of the Viola &~~

~~Clarinettes~~

~~ditto Andante in Russian  
5th Sym + also goldmines  
overture Sakuntala~~

Headcraft - How about that  
leaf of timber & give you  
from Ore of Mexico

Walter Mellon want  
Memoranda of some on  
disc by Petroleum Trio -

See about figures for  
Center of disc see taken  
at once & make  
no name

When the 6 small disc  
delivered - personally  
follow the job

Next size 75 - cover  
Cover on



Closed over for washed  
blanks with air blown  
in three Callon to dry  
at off - ~~the~~ fixing -

See about Kennedy leave  
Paul Film Co. + Bost  
product - ~~what~~ not notified

look at ~~the~~ not  
conjugated -

See Weber about hydraulic  
for Steel Cabinets

Telephone. Blankenau  
as to progress

~~Inspect Phelps  
papers, Anderson  
& Lauer~~

~~Inspect, Arthur  
Dapt~~

~~Qualifies another  
list of records to  
make up~~

~~Lat - plate #9 on  
flat plate, eat with Casey  
wash then plate with  
resin then for analysis~~

~~Roll out several 005 aluminum  
together to 1/1000 or less for  
Pierman - Pierman City  
Collection -~~

~~Christmas Tree foil  
1000 - Hat rolled  
out ivory celluloid -  
Japan paper Lacquer~~

~~See when the Reservoir  
be read~~

~~find out Selby Company  
Malow don't come  
see H. Taylor about  
foundations~~

~~Write Crumley about  
last record sent over~~

~~Tall Woodcock ft.  
leaves under night  
known section threads~~

~~Frames about Glacial  
fluvial sands - Van Horn  
Collon, brushing -~~

~~Pierman - Use soft glass  
Ivory Celluloid - Copied  
steel, Alumin, Repair paper  
Lace dia~~

~~Why not make a cap with  
saw & Ring with box that  
cant turn / forms & screws  
disappears in - paper~~

~~Indian Motor Cycle  
see below & Engage  
it~~

~~Bells - Drowned out by  
Cornet - Same racket  
Monsters -~~

~~Piano no soft tones a  
piano in less time  
shoned as all to play~~

~~Cornet ok but  
time Kallon -~~

Clog dance good  
but counts

30 sec second  
Couldnt understand  
song at 1st part

3 = Song by lady  
cant hear words  
not much action  
in funeral -  
Synchronism not  
good or something  
wrong

Miners track - good -

Prohemical girl -  
good outdoors (R)  
Clarity of tone -  
Evidently, folks pic  
good for Opera  
which very beautiful  
& good singers

Higham 150 thread  
008 Cutler - triple deep  
gold plates & hand saws  
deep from the gold  
plate.



~~Ideas in suit these variations  
in sunny places + slightly  
moisture for trial although  
Synthesis of these could  
go perfectly together~~

Go over with McClean  
Cost of adols, cereals  
progs etc vs newspaper  
adult in 1907 to 1910  
+ see if can change  
Custom to save money

Idea, weaken 4¢ packets  
+ make them 1/2 weight  
slower than the others  
so if water loss not  
unavoidable

Yacht balls 3" high  
out on deck

Free all hand fan  
ventils but better in  
Florida - Calgate,  
Waltham -

Make Money of 40, some in  
Prims -

Look at Jun gleland  
see if its jumped out

Have Calling of Alan  
Records do C. Hughes  
select for books -

Reducing Adts for 203  
in sea floor borrows. K  
Sulphate in alkali  
Hydrocarbonate salt  
Methane  
Hydrogen  
Hydrocarbon  
Hydrocarbon  
Hydrocarbon

Current in the  
port which is to  
be made the 72 CH2

Think the Chlorous ~~oxide~~ oxide in  
N<sub>2</sub>O<sub>3</sub> will oxidize the Fe<sub>2</sub>O<sub>3</sub>  
+ not dissolve the Ni -

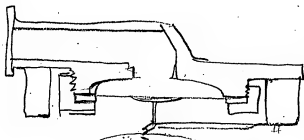
Try reacting Fe in acid solution  
with current see if produces  
~~Fe<sub>2</sub>O<sub>3</sub>~~

Growths of Whiskers - about  
temperature of turning the  
instrument to the  
plate lamp room constant  
then time

Experiment with plate  
vial etc + regard to  
see if better keeping level  
get rid of higher corrosion  
that is in the center of the plate

Find that paracetic  
Nate on P<sub>2</sub>O<sub>5</sub> and that  
is abnormally high  
flowed - Run it down  
+ find what is in time

with 4-Clamp funnel etc



Knife must be got close to die  
otherwise scratch

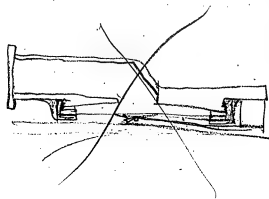
See what bearing is on  
bottom of die shaft in  
Big with a m<sub>60</sub>, machine  
I think ball joint is used

The first attempt of record  
takes place in the die  
has settled to regular speed  
could not be done more

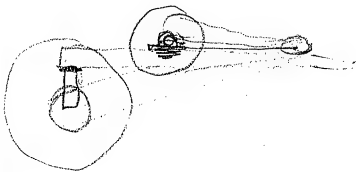
Put tube reverse & reduce  $\text{Fe}$   
to metal then soak in  $\text{CuSO}_4$   
& then soak out if it forms  
basic  $\text{Fe}$  salt find some  $\text{Cu}$  salt  
that it doesn't — then oxidize  
 $\text{Cu}$  in  $\text{KOH}$  glycerine &  
work it out — or better  
Reduce to  $\text{Fe}$  — put in  $\text{CuSO}_4$   
then in the  $\text{Cu}$  dissolving  
solution,

~~Dunwood's  
L. S. Johnson's method for figuring~~

~~Use published  $\text{Mg}$  & coat  
with  $\text{Fe}_2\text{O}_3$  then dry so  
very adherent then lay  
electrolyte to reduce  
& remove —~~



Plumpton



$$\begin{array}{r} 600 \overline{) 300} \\ \underline{300} \\ 0 \end{array} \quad \left. \begin{array}{l} 300 \\ 3 \\ 00 \end{array} \right\} 2$$

$$\begin{array}{r} 120 \overline{) 1500} \\ \underline{1200} \\ 300 \end{array} \quad \left. \begin{array}{l} 1500 \\ 1200 \\ 300 \end{array} \right\} 13$$

**Notebook Series -- Pocket Notebooks**  
**Notebook, PN-12-08-16**

The two dated entries in this pocket notebook are from August and November 1912. The book was used by Edison to record ideas about business matters, experiments to be tried, and other tasks to be performed. Many of the items have been crossed out. Included are notes relating to storage batteries and to battery applications such as country house lighting, automobile starters, and miner's safety lamps. Also included are entries pertaining to the home projecting kinetoscope, improvements in the kinetophone, phonograph cabinet designs, and the production of disc records. The business-related entries include notes about costs, salaries, personnel issues, and staffing. There are also notes on recording artists and musical pieces. A two-page list of managerial and clerical staff, along with their salaries, appears near the end of the book. A variant version of this list can be found in PN-13-01-04.

Among the numerous Edison employees mentioned in the book are Frank L. Dyer, president of Thomas A. Edison, Inc. (TAE Inc.) and head of the Legal Dept.; Carl H. Wilson, vice president and general manager of TAE Inc.; Edward L. Aiken, assistant superintendent of the Edison Phonograph Works; H. Grimes and Brian H. Philpot of the Disc Record Manufacturing Dept.; and Walter H. Miller, head of the Recording Dept. The pages are unnumbered. Approximately 160 pages have been used.

Ask Sealer to inspect  
lower in certain time -

See about ~~ex~~ ~~resign~~  
claiming ~~signature~~ for  
primary ~~to~~ ~~Voell~~

Wound ~~sample~~ house  
Regular - Rectifier -

Catch up on all  
records so ~~every~~  
have ~~been~~ ~~over~~ -

Take Fedor ~~back~~ to Home

plate ~~p~~ ~~disks~~  $N_2$   
with  $\frac{1}{2}$  reduce to  
Cu & thin plate  $N_1$   
 $\frac{1}{4}$  / 1000 + strip  
ditto  $\frac{1}{2}$   $\frac{1}{4}$  / 1000

~~Blue eyes section with about  
2000. ...~~

~~also *Martini*~~

~~...  
about the same ...~~

~~Local ...~~

~~High ...~~

~~...  
...  
...~~

~~...  
get ...~~

~~...  
...  
...  
...~~

~~All about ...  
...  
...~~

~~...  
...  
...  
...  
...~~

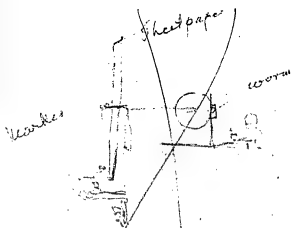
~~Have ...  
...  
...  
to ...~~

~~Richardson's "Melody"~~

~~...  
...  
...~~

~~See what ...  
...  
...  
...  
...~~

~~See about the [unclear] [unclear]  
[unclear] [unclear] [unclear] [unclear]  
[unclear] [unclear]~~



~~Device to record  
defects in records~~

~~Have  
Each week give Dwyer the  
Expense of his plant in detail  
get it of the [unclear]  
[unclear] cost per foot -~~

~~get 2 super [unclear]  
objects for use~~

~~get new concealed  
Horn [unclear] [unclear]  
for [unclear] [unclear]  
[unclear] [unclear]~~



~~Crankite to get tone and  
large architectural effect.  
Black the Gray 4 and paint's  
has now to bring out tone  
with usual hardness  
then duplicate the  
4 with a few feet  
apart from -~~

~~Crystallization show~~

~~Very large crystals  
(perfect) of the  
Crystallization show  
called a crystalline model  
or the crystalline model  
Division - call Crystallization  
forms~~

~~Asker make a good  
good name or name  
in a book case~~

~~How many days you can  
make before we have spoiled  
Submas show -~~

~~Cable about Martinello~~

~~Request 2 jobs get  
together one has the, both  
Vols 50x other 2 you~~

~~Raise May \$10.4  
Bach to 7.500 -~~

~~Primer - give her the  
different sheet from an  
library - extra + extra  
for Duplex -~~

~~Opinion price a 2nd copy  
Primer in the head  
blank has been  
Repress now second  
see if anything by 2nd  
3 printing work bubbles out~~

~~From make one blank  
then print the other way  
would then get an  
transfer of each  
inches) would be an  
piece in the middle  
I also try other paper  
blank~~

~~About Baker for week  
Master white blanks  
or even lower  
say you have this new  
about blanks several~~

~~Make square of  
disc about wood~~

~~Cut out and  
take see if it  
transfers to a  
sub m blank~~

~~Myhan Cam a bridge  
to ward + you land over  
the action + get formal  
just below photo tap  
of picking -  
This would get you  
Close -~~

~~Dodd for some  
blanks -~~

~~Italian design  
box + top for \$60  
machine~~

~~4 Fred Holt - add on to  
second phone for getting  
defeat a worm all over it  
for run disc slow for  
Crackles~~

~~Try on high hills  
equivalent Road  
with graphite across  
graphite alone then  
grains + talcum,  
red of equivalent is  
due to yellow~~

~~Why not take (make)  
Mondie + ...  
press transfer +  
pressure are it  
with ...  
to get high pressure~~

~~Ask on telephone of this  
soil people if make  
pure for soil a the  
thrust with all across  
+ smallest with a of 12" wide  
or if can roll it~~

~~Ask W.A. if he can cast  
mountain blank on a  
Matis Mondie we can test  
with Model for Crackles  
then, make for golding~~

~~Get Anita sketch for  
transfer + ...  
is used for ...  
work~~

~~Apply press over let  
in clay longer in  
would to get colder~~

~~6 Coats baked to 220 Eng  
Coat,~~

~~Reproducible Affections  
at dif speeds. See if its  
affects dits squicks~~

~~Transfer 1st of Aches  
blank then clean with  
Alcohol thoroughly -  
then~~

~~See if baked transfers  
are affected by  
alcohol very heavy  
than after being put on  
Substrate blank -~~

~~Use minimum formalin  
between transfers -~~

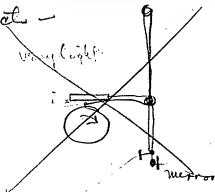
~~dits wash 1st & 2nd  
transfers with alcohol  
use minimum formalin~~

~~dits wash after  
roughen with flaked  
rough to coarse abrasion~~

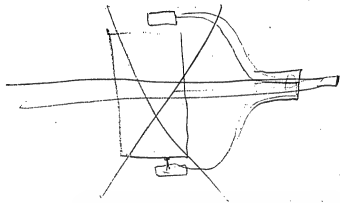
~~High hard vacuum  
Drum use pallet leverage  
Refer to reproduction  
no fraction refered -~~

~~1st Coats about  
Duplicate music  
with several people  
but in 2 5 dits  
repeated by interval  
of 3 or 4 ft -~~

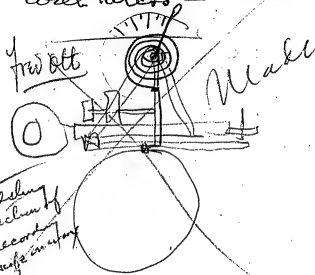
How Fred got getting on  
with all the marks  
defects -



Small



Dodd - put 2 fresh blanks  
in box with date on a  
finely turned then season  
8 & put 2 in at end week  
2 at end 3 weeks &  
2 at end 6 weeks -  
put them away for  
a test at end of each  
month take out & test  
with Micro -



Testing  
touching of  
Records  
Knife in use

~~See photographs of wood  
Cabinet ~~etc~~ &  
also ~~dropper~~ Cabinet for  
Steel & also square  
wood -~~

~~Wash all prints of  
records well with  
alcohol until  
residual gone before  
gold plating -~~

~~Get revealing bath  
on chuck held Record  
well - Use Chlorox  
also Silk & cloth  
dry with Silk &  
wash silk out in  
fresh alcohol -~~

~~Take some records  
already made &  
well worn & see how well  
several records~~

~~Aiken wash & polish  
some of his Council records  
with alcohol to test  
durability of wax & etc~~

~~Premier - Take some  
jeans records when  
man comes & make  
in blue ink -~~

~~Get diameter of Vic needs  
after its worn to size  
its dia is equivalent to our  
ball if less it will  
certainly cut records if  
it has our weight -~~

~~Open - How about Lancaster  
& Cost - Expense sales  
etc =~~

~~How Highley getting on~~

~~Get Pat's go -~~

~~Test Springs of Mack's  
suspension. #2 truck  
also see if better in  
all possible places -~~

~~On Dock truck considered  
heavy plain chain~~

~~When truck OK checked  
show to Coast of Livingston  
& Beach -~~

~~See what is happened  
we have with Big Cannons  
& since her -~~

~~Fred Ott - go in & fix from  
& Tail Co. for all E. & C. trucks  
same did not separate~~

~~Monday Missy asleep test  
room from initial 1700  
was 350 - 4 V M found  
mean asleep - 1/2 hour  
Came back man was up  
lost it was still 350 -  
4 V M went in at 10 o'clock  
put real chain on him  
at Sea still about an  
Oregon meter records  
like Pyralis -~~

~~Ready to set -~~

~~See Philip's Cloth Chamber  
how get on also tanks  
& piping - on Ganges~~

~~Ash Dept about Bliss  
Contract~~

~~See Kammshoff about  
progress~~

~~Higham - Report to me &  
must be kept pushed & I  
want that understood  
hereafter monthly -~~

~~Buffalo Creek  
high iron content  
be used - place  
Chain & place  
Res Controlles  
Bathing 10 cells  
C. S.~~

~~for Exhibition House  
Home record &  
legations & names  
of Assoc~~

~~Put up a dust filter for  
Dad, for making White  
Masters -~~

~~ditto -  
Council records for  
demands for  
15 men - wants  
2 sets records -~~



Holland had run on phone  
3 yr trunk - ~~down~~ feeding?

See if Dad got an old  
blank - want to have  
Walter turn around J

1  
Test for singing to P. & A.  
Continues to note on Chickadee  
1 Note the waves - usually  
2 hours + 2 records  
50 record ends by side →

2  
Run blues say 30 to 50 feet  
Sound a note, this will suggest  
when birds enter nest  
together.

Walter, Kelly: How about  
Miss Charles, Cahier at Kelly  
Cornwallis -

Test projecting period of  
funnel & Recovery process  
by one funnel and paper funnel  
this animal to a redoubt  
+ New Orleans

Test 1. test including question  
of a day. This is a very  
2. test. It seems like  
work of some - to get answer

4 or 5 phones locked  
together would be many  
ideas of Search would  
several Separable of  
this simplest - even if or 3  
with complex in  
Contexts - useful of theoretical  
Observations -

~~Test 1. test including question  
of a day. This is a very  
2. test. It seems like  
work of some - to get answer~~

~~should~~ should take any  
12 inch & back up later  
in various ways & get  
the best combination

~~Can use smooth disc  
in record of some kind~~

~~Try distilling ref white  
way in alcohol - also  
distill off following -  
off alcohol -~~

~~2 min - no pass  
2 min 50  
2 " 75  
2 " 125  
2 " 180  
2 " 350  
5 " 500 or film 600  
18 min~~

~~Patent Malon Dynaflex starting  
acts, both a series of sheets,  
with Eutich London of alder  
is sold - also the clutch  
to shift over -~~

~~Dumelle - we showed  
called they reference  
stagnant water from  
various sources now  
look to see through for  
examination & when good  
film them before deacon  
Crisp~~

~~3 min - no pass  
2 min 50  
2 " 75  
2 " 125  
2 " 180  
2 " 350  
5 " 500 or film 600  
18 min~~

CBSJ

~~do same on smooth press -  
before pressing mixture~~

~~Use another Parlow when  
Smooth press on inspection  
looks good.~~

~~Pierman make 4 cups  
+ base bathing chalk with  
the 3 layers shape 4  
5 + 6 layers to get  
diff sharpies → test  
conveniently~~

~~The kids a recovery  
funnel test for soundness  
is quality of separating  
from a speaking tubular -  
Cal Stewart~~

~~Ask Grimes if he uses  
the Cracks in both rows  
first being over to get  
→ get ready for plating  
trucked blanks all  
Mi = goes when he has  
quadrants with  
proper amada -~~

~~Grind up in Mortar some of  
CO brown if really  
brittle -~~

~~Have man make 1/2 lbs  
of it for 2m A.K. cell →  
for test~~

~~Put up 4 packets for  
long test Reg -~~

~~See Hinder about Dods South~~

~~See about New several  
Diamond Recorder Campers  
& copyright~~

~~Select pat for Argentine  
Pattingy~~

~~find that Edythe Walker  
Queer Record by Austin~~

~~See Copies of the Co  
2000 mah iron - after making  
after running~~

~~Goodman says to explain  
that it is impossible to  
make very low price  
disc on account of  
the high grade of the  
whole thing that we  
are compelled to discard~~

~~so many things for slight  
imperfections which  
hereafter would go out  
that we discard hundreds  
of records for imperfection  
which are not present -  
Even now record +  
that to get perfect picks  
we are compelled to make  
expensive machines +  
long test which are  
all expenses to get  
five minutes well always  
be more costly than  
anything else +~~

~~When a Disc is not  
Complete to arrive  
Is that part safe  
with the machine  
re-run~~

Wake out ~~Christ~~ Expt.  
Picman ~~for~~ the 16  
recorders +

---

Announcement Advt  
Dis. in August, to  
prepare people,

---

3 Speakers - <sup>Standard</sup> Standard  
Mezzo + Contralto  
or use  
or standard, Soft +  
very soft,  
see about getting  
some words -

---

Get more flour  
Sifter yellow rubber  
transfer - several  
keys to make a  
good test carry  
softening to 100  
about 1

Bring booth Crook  
planning all about etc  
over 200 with  
silver and sub similar

a holder -  
green - use. Hang of 1st  
r then go to 10 - people  
having them 20 camp  
have to have 10

It always pays 1 amp  
to 3

~~Wilson - Why was  
Bobby took away  
from NY~~

~~Ballentine - 1st test from  
Climes with 5% H<sub>2</sub>O to make  
sure no C<sub>2</sub>O present as that  
is due to decolor + it will be got  
out after C<sub>2</sub>O<sub>2</sub> is well,~~

~~Something wrong with our  
iron pocket, though some other  
design would work to ok  
below freezing point,  
design not good~~

Soak 2 1/2 quarts in water &  
let them self dry before use  
ditch book in Carbonate birds  
- ditch Black ditch dip in 2 1/2  
HCl dry when left today

all to be load cold of 1900  
more -

2 quids, bake at 200, ditto 300 do  
400,

2 quids wet with slony ammonium  
dry mess

wind wire-DIO around pocket then  
Crimp & Corrugate -

~~Why~~ Why the 2 with powdered KCP  
very fine, 5% - put in pocket & quid &  
Crimp - ditto 10% ditto 20%  
then cook out

pocket with 4 screws thin washers with  
nut on either side. To tighten, or a 1/32  
screw with center piece whole length  
pocket 20% - 40% thick to screw into

Drive headed heads three headed pocket  
& clench on opp side.

Load pocket with damp mix -  
press damp,

Max with graphite or powdered  
to mix & load.

~~Why aiken Camerons  
cheap graphite with Camerons  
+ pulp to make it flow better  
also can't use some resin~~

~~Why should disk move in press  
why not press from perfect edge  
then put transfer on to size so it  
don't have to flow.~~

~~Wash the blank before  
pressing - ~~by~~ water then  
alcohol.~~

Try 3 A4 with B1 grow

run 1 with 5% KOB

1 with 10% - 1 with

15% - KOB, Li -

2 with B1 flake & ZIR 2h

Pierman to make  
1/8 smaller cells  
dies & come down  
by 1/8ths -

Rec of legal dept.  
applied for patent  
pending in Vassar

Dry buff not only  
the muscles moved  
but sub muscles &  
sub muscles moved

Caliper submasks  
blank sets of same  
check if not ground  
off back -

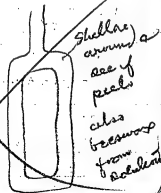
Test man tremors -  
24 hours empty stomach  
full stomach with 2 million  
Vassar water - empty stomach  
full water -  
Belt around waist tight  
Collar around neck tight  
also loose -

Borath Chloroform - Ether -  
Big 3 fungus whiskey -

Sung set down - stand up  
arm up - 1 up 1 down  
belt around Ribbs -

Louise

Plate No. 1





Combination Chlorine, <sup>powd</sup>  
2 1/2 oz to 3 oz  
point on materials  
that will withstand  
high pressure ball bearing  
8/1000 dpa

Combines the disc  
with Penco napoleon  
Spermet Sgr pens  
underneath of patent  
Combust or design

Warm ~~transfers~~  
until it could take  
grain, then press

To No 1 Varnish instead  
10% Parla - add

10% - of follow

Chloral Hydrate

Camphor

Impurities by alcohol

Di-chlorophenol,

Coal tar pitch

Alumina Pitch - ~~acetylene~~

Kook. of Bask -

Rosin -

Talcal -

Shilac

White Wax

- 1 = Try general ~~on~~ <sup>in</sup> records  
 2 = Experiment on amount to remove  
 stuff similar to it - use 33% water -  
 also alcoholic K<sub>2</sub>CO<sub>3</sub> strong solution -  
 perhaps we never get clean record -  
 that ~~is~~ <sup>is</sup> better than heating stuff -  
 3 = May be good to ~~use~~ <sup>use</sup> hot  
 transfer to smooth the rough ~~part~~ <sup>part</sup>  
 part to permit flow -

4 = ground off ampules by plugging  
 dille. try one ~~time~~ <sup>time</sup> ground many  
 oil - ~~using~~ <sup>using</sup> dille ~~dille~~ <sup>dille</sup>  
 ground off a good deal

5 = see the record ~~on~~ <sup>on</sup> as much flowing  
 reduce it to minimum - having alcohol  
 would actually have to pump put no  
 net for an ~~or~~ <sup>or</sup> vice - control the flow as  
 it is just enough to fill. imp 0000

6 = allow place in transfer pot ~~open~~  
 under it to even up -

7 = test solubility of pieces of transfers  
 not want go best ~~in~~ <sup>in</sup>

8 = can probably direct flow by  
 pasting paper underneath around  
 outside - also release pressure  
 on solder -

~~Get plating ready to plate  
 Silvered disk -  
 3 amperes 30 minutes then  
 in box & into Copper bath of  
 looks good -~~

~~Probably can plate paper  
 ring directly - see how I  
 do most because jet from corner  
 on record part flowing but stiff  
 to immerse - outer don't look  
 points.~~

~~10 = Roughen surface of transfer  
 but a certain amount of KOH.  
 see what it does -~~

~~11 = take a 1200 transfer pot clean it  
 & put 1 coat varnish in a bake regular  
 try NP1 & Req varnish -~~

~~12 = Inspect transfer - rings  
 from way of spots, then  
 varnish the bad spots - bake~~

Speak Walter Wells about  
tracking a ring stop  
Recher going over on  
L. 1. 1. 1.

Walter Wells has  
Kaiser got a blowing  
at the U. 1. 1. 1.  
also stop A. 1. 1. 1.

<sup>from</sup>  
From (red) water meter  
3 amp 10 minutes  
then raise to 10 - for  
an hour or so. Then  
you raise to 18 or 20  
when air used

Ughan Reckling  
1 hour  
at 7/10 amp



go over with hand every  
3 or 4 minutes to reduce  
friction

~~Generally - best air  
from Ozone apparatus  
blowing into it a few 50  
or electrolyze the air  
only or O to more  
advantage~~

Smith put up 2 cells  
on 2nd urank -  
with Reg electrolyte  
but made with  
KOH with 2% of  
KCl - furnished  
by Silver Lake

Walter Mills

grooves in edge

See figures

5

send note to G. P. ...  
wasnt see him & find out  
how he take care of the  
beacon ...  
show ...  
strip & ...  
to test all his ...  
a basic ...

See Dick ...  
transfer ...  
... are put ...  
a property ...



Shaw  
week ...

press ...  
white ...

look at ...  
golden ...

press a piece of ...  
just ...  
in ...  
also see ...  
soak in ...

Little Discs

Little discs  
Cast disc of 140 W.P. paraffin  
see how it presses ~~the~~ ~~out~~ ~~buttle~~  
if it is 135 @ 137 MP paraffin used

ditto's Cerisin

" Picawax & bleached hard  
while wax done tange's

White Cerisin -

Black Ozocerite -

Stearate Nickel & Manganese, Lithia  
Fry from acetate, used to make in  
house High MP glossy -

Silicate K glass it softens -  
& melts see if can coat a small  
disc

~~Lead~~

Stearic Petals hardened by  
Stearic etc -

Oleamide - action alcoholic  
ammonia on oil almond, some times  
at 75 cent - see if Quilcher sends  
this likely or long ago

Chlorg must be melted  
in alcohol of chloroform

Silver sulphide, ~~from~~ ~~amalgam~~, cut with knife  
used as varnish - printed, then reduced on  
surface;  
see if Q's is suitable;

Can use grey grease or fine + pow  
Chloride melt - can be formed in varnish

Phosphide Hg very br cut with knife

Sulphur carbonate Silver cut with knife

see if the fumble metal have a  
softening point before melting -

ditto if Tin can be alloyed to give low  
softening point -

Metacinnamine softening heat draws  
into threads, can be cut with knife at  
and temp - varnish, ~~just~~ ~~like~~ ~~shake~~

gutta percha - solvent varnish

Permaldehyde phosphoraceous transparent

Sulphur dioxide Mn. Varish brown  
also Mn not brown

Carbide glyceryl - ~~trans~~ ~~difficult~~ ~~putting~~  
mud H<sub>2</sub>O at or with

ditto Bissac same as above melt 100 cent

Cyanide Co. in Tennessee Mass  
glycerol nitrate Co. / glass

Coddenwood treated vegetable  
ammonia form large quantity  
Amide MP 93 cent. becomes  
solid + lumps

Hexamethylphosphate Mg precipitate  
Soft + viscous, broad precipitate  
Hexamethylphosphate Silver  
Soft at 102 C

~~Tetramethylphosphate (dip) / quaternary  
ammonium salt~~

Ammonia Amine +  
Phosphate not begins  
out of bulk of clay  
they say 5 days with  
why not heat

Winkhalt interruptor for our  
disc coils —  
also see about high laws in  
alternator

Play active laws on some  
mechanical Compositors + change  
the speed of Revolving disk so  
when it stops speed the at  
times slows up — then we  
get rid of fault by means of  
high rates

Have Cornelius see Jean de  
Phoatke in Paris + tell him  
about new disc + ask him  
to come over to laboratory  
great to ~~see~~ contact  
with any phone Co. which  
he sees what I know  
which will surprise him  
+ be of great assistance  
in his teaching

How suggest to aug 2/3 volume  
for shows so as not to per dem  
feller worse -

Ask Gatti Cagey of 30 out stand  
underneath with prompts so  
can use my horn

Higham why not double  
fraction 1st trial on muscles  
which rope has load  
Committed to a 2nd which  
should be loaded?  
This get rid of 30 out stand  
that hangs from campfire  
records

Mining lamps double  
glaze, been pulled  
to water, or too thick  
Have not tried at  
Harwood then tests  
try at Lab in explained  
mix

Dys - what do Gatti & Polym  
do losing out K. Biology  
get data, How about  
organizing sales agency  
all matters

How about ~~film~~ film  
Co new organization

Also film dept of water  
bad - bad screen better  
not answer, They poor  
man of no resources -  
Not good work - big new  
machine with all steel  
drag - Explain Dyer  
secret in Re Prof

Controlled with Musicians  
How would it do here  
gravel & Crumlin come  
over. 1st Sept see new stuff  
also Making Caberul  
in Aug of Spring

Dyer Continues

assemble these small  
place we said spent  
only to London  
Berlin - Make spirit  
of all big things  
shows, perhaps Stock  
if they are not with  
Circumphone of our  
recitals -

How about Defel,  
Pawnee = also of  
in addition to our 4  
Real can we get out  
an Extra Scientific -  
Anything you heard from  
Puckalton

Card index reviews stating  
their best requires  
equality vice papers  
place of Concluding with  
instrumental etc.

looking at the Contract,

Try the 1/2 old plated  
Submarine in both in  
Chem room Coppering

Goodwin has now  
travelling been brought  
to take report a part  
together now H. Schur

See mentioned new  
papers when he will  
be ready to make  
account with



~~See Rogers & Bachman in  
Re camp notes.~~

~~See Low if he cant  
reach Kammerland goal  
by putting on extra  
miles -~~

~~Point in phone talk  
we have 100 units  
of money to spend -  
we are not going to  
spend 90 on bad voice &  
10 in voice that has  
no real value  
We shall spend 90  
on getting good voice  
& 10 on ability -~~

~~Mem for Goodwin~~

~~dont put same singer  
on both sides of a  
record -~~

~~Adoly - see some of the~~

~~Theater Recordings  
introduce others in  
place of those a  
Sung in the form  
Opera & other  
Songs from the  
orchestral leaders  
set, we can get  
an orchestra.~~

~~Adoly & Newmach  
for phono record  
in place orchestra~~

~~Patent <sup>over</sup> Repetitor in connection  
with Vic Repet using an  
Extra ball or wire to guide  
the ring Repetitor or several  
wires if a brush~~

~~Try out for Anderson  
on my Vehicle Tax paper  
for Cells -~~

~~Tell W. Miller not to  
make Chrom so loud  
so they will be better  
= If they are not quite  
so loud as I want it  
will be better -~~

~~Smith gives me the number  
of Nickel mgs in each pair  
of test cells with the  
Capacity of full  
Charge after the 300 +  
600 hundredth men  
Compare this with  
Same nos in small Tube  
Cells to get indications~~

~~Philpot just clean  
press from  
Can suggest at  
substantial local  
for presence -~~

~~Handful another  
man~~

Dutch -  
Co to Rent out Kinescopes  
\$2.00 ~~week~~ + ~~curtain~~ -

Clock with pendulum  
valuing 1.00 & also  
go to ~~the~~ ~~warehouse~~  
of ~~phones~~ ~~or~~ ~~patch~~  
in ~~warehouse~~ -



Arken & Gump  
Jewelry blanks not  
flat on top there is a  
flow at edges

 Correct this

Order 1/2 doz tracked  
Records today ~~not~~  
then to have on hand  
see ~~price~~ ~~less~~ ~~has~~  
either on ~~recording~~  
to ~~recording~~ -

See who is responsible  
for sales of  
Kinescopes

Ask if ~~W. J. Waddell~~ Waddell  
is doing Spiky Pic

Richard H. G. G. G.  
Bee Volant Has become  
of index Journal for  
following B Cells

for wrapping disc & tubes  
Use paraffin sheet rubber  
hundredweight 1 ft size -  
also get pair European thin  
rubber gloves handling plates  
& test tubes - try collodion  
& dissolve off at night, tips  
of fingers -

Get Baker antiseptics so of have  
rubber gold wire,

Suspect the first 2nd &  
all prints from Bloomer's

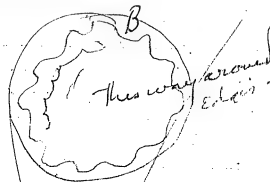
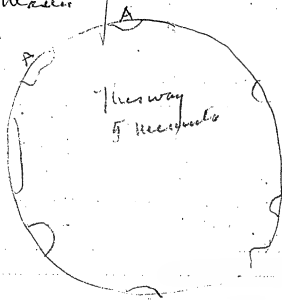
to note if mould gradually  
got bad also listen for the  
herald on each 3'

Ask G. Jones keep & time he  
plate checked on mould -  
& how he prepare the mould

Rig up revealing Cu plates -  
Use central depressing anode  
Get any Mils. & has no capton - scale  
10 units -

gements to keep all vases of same  
plating smooth transfer <sup>to metal</sup>  
to test plating expts  
want 20 or more -

History of substrate plated  
with platinum if porous an. Current  
first 100 amp 5 min but could see  
no base platinum had covered over a  
Sunlight from plate at water edge  
rest of in Cop. bath  $\frac{1}{2}$  amp 8 min  
One amp 14 min  $\frac{1}{2}$  amp 17 min  
 $2\frac{1}{2}$  amp 5 min -  $4\frac{1}{2}$  amp 115 min  
When cop was up to edge  
of label, kept this on till  
covered a lot of area for  
Mastis.




After  $7\frac{1}{2}$  in we made  
all amps from  $1\frac{1}{2}$  to  $2\frac{1}{2}$   
& by mistake a washing with  
current of a minute or so  
& 2 times where we got  
40 amp or for 1 or 2 500  
we found the circle had  
retained from previous 5  
minutes at  $1\frac{1}{2}$  & the 40 amp  
 $5\frac{1}{2}$  of mesh & it was discolored  
color being red, this  
discolored color gradually  
approached outer color but  
when disc covered the 2  
quarters of inch at one distance

It shows critical ground  
Edges show, were should be  
put on before gold plating

7/10 amp on nickeling

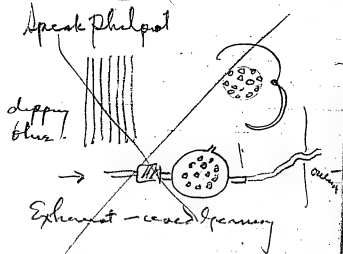
1 Hour

Suspended in Vertical

Position  anode  
about 3/2  
inches

Speak legal dept that in  
course of operation ~~and~~  
we left off the area of ball  
with the ammonia how it  
corrected in apparatus

~~Robson - Moore's phone vent  
Machine & disc - ~~and~~  
or under by steps -~~



~~Atkin +  
Moore's (try cooling  
in bottom of the transfer  
Stop Cracking~~

Note in 10 Records  
if breaking to some  
depth on start as  
cylinder -

Make wear test onto  
Varnish - Aiken make  
Coast records & wear  
& Cal'd test = low  
Records -

Tell Walter that which  
We agree in Contracts  
to take say 10 songs  
that we may want many  
more if they happen to be  
favorites

Aiken & Moore try  
Cashing on Ballou  
side f -

Aiken - Callips the  
rough blanks before  
Walter put on -

Walter Miller want  
1/2 doz more tracks  
blanks, take great  
care with them just as  
much as if a record  
you cut, blow on  
some,

Dym - see Durand  
about some copyright  
Columbia stuff  
for etc

get paper Electrolytic  
Calcium  
by  $\text{SrCO}_3$   $\text{BaCO}_3$   
Pb Sulphate paper  
Zn Oxide solution. Zn white  
flooded Range,  
flooded chemical gasolin -

~~Witch single Dynamite  
ford - Oring  
hoop it~~

Instead of c. 12  
Coat transfer -  
low in melting  
harden it  $\frac{1}{16}$  thick  
back it up & press

Lead plate  
Coat transparent  
old plates  
state of mind  
dependence

~~glass square jar  
Nicholas Wafer  
28 Wocren St  
NY  
outside measurement  
13x8 13 $\frac{1}{4}$  deep~~

~~Mud Muffle table  
12" high - also 7  
brackets - 7~~



for up new gold vac  
with insulation of qrt  
heavy glazing at center  
or 1/2 the loop at Edges

Brody 1/16/40 36  
Phone 1/16/40  
See page 16  
1/16/40

See if Vialing Pic  
is necessary  
1/16/40

Make close fitting  
box for Ashes crate  
of transfer plates &  
take at 130 @ 140

Leaquinny' Egg camp 16 1912



Use ring of perfectly  
flat plate.

Each plate could be raised up the  
5 cm. sides to insulate the spread  
leaves -

2

Ashes rocks put in box with funnel top  
& close - per level of plate. Pour &  
put in oven 125° -

3

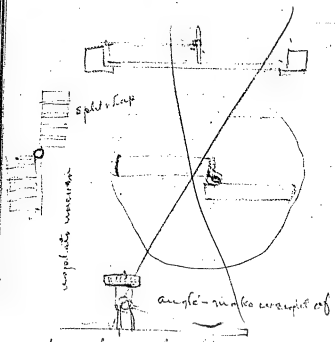
Dry the Leaquinny & put on with screen  
the melt of dirt melt it in  
closed chamber in hot air oven  
if dirt soft even use of powder

4

pour in water a  
definite amount  
Leaquinny -

Put in oven to give it  
insulation at angle of spread  
then air dry & put in with  
last one on

5



6

Attempt to make several grids  
of  $10^5$  of Vanadium -

Try Kly  $9.12 \times 10^{10}$  also  $9.12 \times 10^{10}$  also  $9.12 \times 10^{10}$   
 also Chlorine gas - Bromine chlorine -  
 Chlorine gas - Bromine - alcohol -  
 or water - little  $\gamma$  source

8

Vanadium very waxy. Each coat in closed  
~~vacuum~~ place small space, granules put in  
 after Vanadium kept in  $10^5$  till dry or  
 out to coat. Then in  $10^5$  till dry or  
 spread shell some of in hot sealed  
 paper & not be kept from coming  
 out by the air formed at this

9

Order that ~~Dental~~ Rubber for  
 wiping - also try silk handkerchief

Daily make 12 C for gold Vac

11

plaster pans in  $10^5$

12

Disolve gold by Kly & Na<sub>2</sub>S  
 oxide -

Try acetate, also Tantalum Kly  
 & also Ammonium persulfate  
 grows brilliant coherent  
 Ni deposits

Dyer about Shoe Mocs  
Lawson help us -  
or altho all letters  
invented -

~~Weber you have a  
large quantity drawn  
points in the field~~

~~Pathe speaker  
take them out & use  
in new speaker  
We should never  
use the Pathe -~~

Patent fixing the  
Survival new reader  
So can't say for  
use on the machine

Patent flowing process  
Veneers for records -  
patent gold wire process

Disc what of new  
disc been put (Germany  
England) - put main  
feature -

Patent pressing Records  
process

Patent Submarine Lead  
or fusible metal  
Superheat on lead -  
non-Cryolatin -

Have we patent for  
Veneers of Condensate,

See about making disc Europe  
import when I will go off -  
patent article info - if possible

See if I have patented  
Cobalt in S. Battery  
Order from T. H. Baker  
Bros 2 of pure  
field's core ~~to 1000~~

Patent for ~~three~~ disc  
paper soaked Resin  
then I was pressed on  
also powder blank &  
paper used for counting  
Vernier -

See J. V. Miller w/ to bond  
muscle Co he gets in &  
have him put up -

Walter Wells open  
books & charge <sup>up</sup> all  
each season to production  
Dept so accounting be had  
for every register so they  
will appreciate costs.

See Wirth about Vault  
for disc records - Will  
that want room for more  
than 200 after we catch  
up -

Improve the Cam for  
winding white records  
for slipping & for cam  
tight -

See Lahr W/ to be w/  
spelling on ~~flown~~ chips  
for white records

Has flowing varnish  
Records from packed -

Arken's all the plates  
we got out except with  
one lot of key are  
affected by alcohol  
You must get out  
6/4 - it should be  
added afterward -

Trouble with Reed  
band is that one  
instrument is a  
resonator for  
the other -

Wider about the 2000  
clocks up & down  
noisy & bad - all on floor  
getting dirty - these have  
together one. Mean down  
then up again & now all  
down

Grimes which you  
start recording  
Keep account of each  
circle of track &  
put your numbers on  
each so we can  
find out the % good  
about -

---

How Evan Williams  
on Vicks

~~Shed pat.~~

~~Whisper~~

Arrange Shelpat to  
having Hughes  
Records before  
right along hereafter

Have boy make wood  
test on vacuum pump from  
50% dit. that is attached  
by alcohol.

See if Doc patented  
Moulding Records in  
Vacuum + dials  
Vance

Warn Graham Wright  
+ asked about having  
new men or telling any  
one in Victor was a  
spy in works

~~Moore & Bussala  
Cup -~~

~~Moore & Bussala  
about cups  
right away -~~

When transfers sk  
print each all over  
Masters always  
then proceed to  
stand on the shelf

---

Write Babson he  
should fix up a  
demonstration room  
for 50 persons at  
least & he will  
save room in not  
having extra room  
he can then have  
programs

Give ~~why~~ the delay  
on extra transfers  
plates

---

Dry Cook  $\frac{1}{8}$  thick  
in top of Corlains  
for transfer discs  
Records etc -  
in place of the fuzzy  
flannel -

---

Exp 12 = 2 paction No 7 undiluted  
1 flow - 5 min Contact 130 lbs steam  
10 min 1500 lbs vac on - then  
Vac off, Chill. Lat pressure  
go down naturally -

2 disc perfect 1 faint copy  
at Edge but soon how & clean  
only 1/2 = the look of hand-drawn  
marks & Crutch - not tough  
Enough - brittle - got 3 out 4 OK  
4th one was the 1/2 steam pressure  
This appears OK at 170 steam pressure

We now try same way  
using two flows of 400 cc  
Each 50% diluted No 7  
making equivalent to  
53.2 cc of undiluted No 7

Access of desc: for  
private recitals very  
Expensive,

Dupes -

Why did not legal  
Dept Call my attention to  
Johnson & capital issued  
in March & let us go  
ahead spending  
thousands of dollars

Plusing -

66% Denot 33. Water

Hot, saturated with  
Dye filtered, little  
HCl - ?



Get from Leland Clark  
book - Charleston Company  
also Marine glue -  
for plating spindles  
+ devise new one -

---

5" water 1" acclous  
1" mm dip -

Patent flooring -

See gum if he  
was unexpected blowing  
Mendham -

---

Telephone Lefferts about  
Good Cellulose -

---

Patent main floor  
Disc plow Englem  
fract quarry

---

Use amyl acetate +  
stick 20/1000 cellulose  
Cellulose to France  
blank + press flat  
+ ~~water~~ then print  
Record on it hat  
Patent this of OK

---

Levo WP

Fluoride Acetone 292 C

Boric acid 196 C July 577

Pb Chloride 498

~~Pb pyrophosphate 806,~~

~~Levo all -~~

Enamels lead Boric acid

Phos Soda Silicate Soda or K

Ca phos - Combination of these

Mix of Tin Oxide & Litharge -  
for enamel on pottery ✓

Patent rim transfer plate  
also removable rim

Patent <sup>dryer</sup> flooring, backing  
transfer - also in  
Vacuum - patent printing  
Records in V.C.

Patent ~~printing~~ on  
Edges - Patent

Reprinting, © so hardening  
that it can be reproduced  
as new articles w/o stop importing  
Goods at No 1 & No 7

Patent Crystal Resin & paper  
or other fibers & Glue -  
patent ~~transferring~~ before  
transferring -

Patent Enamels for disc  
get best one -

Patent direct printing on  
against flowing of it can  
be done ✓

Patent Method soldering  
Records to backing ✓

Patent Vice holder &  
Rubber ring & all  
details  
patent Center Director  
in England

Wood. Did I patent steel  
mated plates & welded  
for transfer plate also  
Nickel sheet welded on steel -  
Wood & German silver

pat up & down cut disc  
around thickness & weight  
to stop vibration

See off 60. Made funnel  
swing in center given pat

Patent a disc characterized  
by the original smaller marks  
of the recording (keys being  
preserved which insures  
the accuracy)

Get all dust, down  
Asphalt, Ph. etc  
till about 600 deg  
Fahr. Remove & see if  
press pat, for disc use

Colony Cellulose with  
a dry dissolved in alcohol  
Acetone etc & then adding  
water to prevent the  
Camphor from being  
cleared out

How about trade mark  
Blue Ambersol

Patent removing the  
surface from the  
Elemental <sup>to</sup> mark  
& defects a <sup>low</sup> Camphor

Soak up the telly colors  
near head disc of  
glass -

Borax. instead of silica  
probably best but think  
this would be good -

Dry Zone ~~white~~ & phos  
used - ~~quite~~ ~~method~~  
gathering test record -

Give ~~Primes~~ plenty  
lubricated ~~sub~~ ~~casters~~  
also ~~lets~~ ~~you~~ ~~be~~ ~~careful~~  
turning ~~has~~ ~~transfer~~  
plates -

2 Oil - ~~distill~~ ~~all~~  
Asphaltite ~~plates~~ ~~at~~ ~~600~~  
@ 750 - ~~want~~ ~~use~~ ~~residue~~  
for discs -

Philpot records  
3 of water  
1 of acalene

262 cc water ~~filled~~  
88 cc acalene  
15 sec moving cylinder  
Dry

Primes ~~did~~ ~~you~~ ~~inspect~~  
blowing off ~~machines~~ -  
also ~~when~~ ~~did~~ ~~you~~ ~~keep~~  
me waiting ~~2~~ ~~1/2~~ ~~hours~~  
keep a ~~new~~ ~~card~~ -

~~Patent~~ Chilling ring  
of transfer ~~to~~ ~~record~~ ~~making~~  
holder -

Wheeler - Arrange to  
change out ~~new~~ ~~cellulose~~  
block to Philpot as  
check - ~~also~~ ~~daily~~  
reports of ~~good~~ ~~and~~ ~~discards~~  
Records -

~~How~~ ~~about~~ ~~Annealing~~  
Substrate blanks -

Wilson - Inspection of blue  
circled sheets to index  
office must index & help put  
also something should be  
changed out to Eugene dept  
& accounted for - also register  
sheet kept show names of  
specimens & numbers -

Organisms from things over  
died. I want weekly  
reports -

Harris - No control of  
heads of life over personal  
but inspection & control  
Control check specimens in  
office -

Constance Brown  
Contract

Wilson - Hold records  
are not to be kept in check  
only made to order  
Dealers keep samples &  
Keep no check - This must  
be done or we lose out -

See Eckhart/forep.

See Round Robin  
overwork -

Mecolai if he has  
good man I can put  
in position -

35 Double records  
Monday 18th -

~~Dinner table glass  
base plates. Use  
app~~

~~Short 1 gold leave  
scrab - make  
3 Extra -~~

~~duke - mounting  
Indiana Code -  
wants 4 Cods~~

~~Bliss making 6 =~~

~~Arch - wires def  
Co - pick up Cods~~

~~Oil on ground or old  
wax - or old wax  
mixed in fuel + put  
all around big  
building~~

~~test the 100 dis.  
Records Council for  
Boston -~~

~~Merkle's trait tall  
yellow unmarried, 3 yrs.~~

~~The year older man  
often with Co. 15 or 20 yrs  
gone here here - 3 or 4 yrs~~

Proton ~~show~~ records

Merchandising  
Little Road, N.Y.

Must smell, come  
out blank (black) in  
Vac by heat work  
with lower temp.  
exp. & —

also where is a film on  
surface as it puffs up in  
Vac. better wash the  
Silt-Mercurio before  
Vac —

MP, of Cresal seem should  
not be less than 210  
higher all right.

using 25 Cresal 45 phenol —

239-A 60 wood 40 Resin  
pressed 300 lbs under of  
500 —

240 A 55 wood 45 Resin

241 A - 50 & 50

242 A, Res 66.33 33.33 —

243 A - 3 wood 1 Resin —

244 A 3 wood 1 Resin <sup>all Cresal</sup>  
Cresal - low MP = 180°

245 A 3 to 1 all Cresal  
High MP —

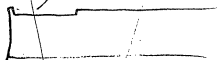
Wilson - show design  
for library - for Proton

~~Halidatun R. 1/2" MP  
of Rosin by ~~Alkali~~~~

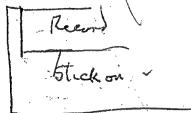
~~Delicate etching / Vandyke  
paper - (b. a. l. 1/2" MP)  
Fluo. for a small time  
do up with care~~

2 Salt wax washers  
Made by paper -  
make up =

Moore how would this  
do  
~~solder~~



do could it force out.  
or a band



in Monday get a 003  
ring in ~~width~~ width of solder  
to stop clench



Patent, including Copper  
for special use of  
the ~~company~~ or

Tell Bee that the 100  
Baking Wagon with  
Motor on differential  
is bad - should have  
shaft & roller motor put on  
it.

Harry - Keep Works ~~time~~  
over time & pay at rate  
of 50 work for 40 time

Dyer Wilson McChesney  
about paying share  
in Boston to advance  
phone in their accounts  
We do some business

Dyer - ~~Take Pic~~ only one  
2 years Exclusion after  
that they are not to be  
deprived of it least get  
it as cheap as others

also my ~~extra~~ films  
after the 2 week to  
be paid for at 9c plus  
Cost of producing negatives

Legal Dept - ~~Did the~~  
distribution of ~~the~~ program have  
apply for ~~some~~ ~~arranging~~  
device & what  
arrangement ~~to~~ ~~be~~  
with him -

~~Wilson - get cost Diamonds -  
Trosphegen Company to W&E's  
Trap has no opportunity or is hopeless~~

~~See (Walker Miller on short  
records go in further say  
1/2 month this was up after  
2nd on transfer)~~

~~Dyer on Curved legs design  
part of Victor, see about it~~

~~He is all over knowing of  
better use of good  
translators let not go on  
give the money saved to  
Jobson to help out in  
his problem. There were  
translators available to  
get from him probably  
has translators all over~~

~~Buckley - No at Weston  
Department~~

~~Harper design 60 machine to  
Scraper via Cabinet - Victor & other  
type - All I can get  
a good one from  
Buckman -~~

~~McCherny some adobe read  
phone at Boston shops in  
Mass about separate -~~

~~Letter for Graham to  
Fox -  
4 Cells for Test Bureau~~

~~2 Records for Maine  
Richardson~~

Wilson - how about Cool  
Drammed points

Harry Miller - Keep ~~the~~ works  
O. Williams want to pay it

Patent Celluloid pressed  
in powder blank  
& then printed -

Patent Cartridge interposed  
between Ambracite &  
the blank - Grant p. 104 to  
a cushion  
also after Dept furnished  
transfer to press  
only ~~to~~ ~~cancel~~ the the  
printing & subsequent  
padding the. & access  
to any kind of a  
blank - paper pulp  
etc -

Try a very much harder  
Condensite plate to flow in  
place of manila paper see if  
its lets go - Expansion  
works to work & could use  
No 1 - Use Condensite that  
don't soften -

Did legal Dept ~~cancel~~  
Opennet type of  
Plans blank if not do  
so as ~~blank~~ ~~blank~~  
going to have  
collected like it

Patent 2 or more  
does command 1  
Blank with  
put to prevent ~~copying~~  
& ~~cancel~~ works

Maxwell = To get Byrdallth in  
Chambers go for the Bishop  
of the diocese of Louisiana  
+ show them ~~the~~ Bill  
at all last nothing

Dyer - Leg. Dept. has there  
anything on ~~the~~ personal  
sale of the ~~the~~ ~~the~~  
chances go for the ~~the~~

Write up a whole series  
of patents on increasing  
of lowed improved ~~the~~  
pieces on ~~the~~ ~~the~~ ~~the~~  
chipped ~~the~~ with ~~the~~  
+ ~~the~~ ~~the~~ ~~the~~  
know way to ~~the~~  
same ~~the~~

Must the ~~the~~ ~~the~~ ~~the~~  
and also ~~the~~ ~~the~~ ~~the~~  
with ~~the~~ ~~the~~ ~~the~~  
creation

In any Contract with French  
specify that the pieces shall  
retained last 4-20% profit  
including ~~the~~ ~~the~~

France works on ~~the~~ ~~the~~  
speaks on ~~the~~

Dimond ~~the~~ ~~the~~ ~~the~~  
big with ~~the~~ ~~the~~ ~~the~~  
3 ~~the~~ ~~the~~ ~~the~~

Wilson's ~~the~~ ~~the~~ ~~the~~  
and ~~the~~ ~~the~~ ~~the~~  
of ~~the~~ ~~the~~ ~~the~~

Conclude to avoid sustained on very  
high. Use more chords on strings  
independently avoid all vibrato in  
C or G strings except in the strings in which  
vibrato is used in C or G or where all  
strings are all play steadily.  
Must have softer feel on valves  
& pass the large pedals more  
intelligently with pedals.

Use violin to imitate scale of wing rate  
& determine time of tenor lymphant -  
avoid it  
A second violin with flutes,  
bridge so sensitive how can  
be made on violinian 2 strings  
avoid undue take that in manner  
of Hume. Don't resist against the melody  
want it done.

~~At a year F~~

Tryed old Copy as  
to how or steel cap fixed  
planned to make  
Densitometer record  
one per year -

W D Frow  
Wks in Adams Dept  
Bent - wants yet in Lab  
Arroyo

Heard Anselmus Replha  
so Walter can make them  
in NY with acct except  
then we can send to  
Europe take him -

J V Miller this  
Sheet Metal  
also plates, powder blank holders lot  
market & cold  
When get Council Records  
send Marchmont Records  
as fast as possible to  
Halley's condition for  
prevalence in studying  
over Methods -


~~Order from Council  
work 12 muzzles  
all with 4 prongs  
a complete~~

~~Get samples 150 & 200  
screen for labels  
over now 400~~

~~Wilson if he can't  
arrange to Demould  
boy, can see the  
weekly films~~

~~Wilbur - he is at Washington  
Tenor - 10 only from phone  
get records~~

~~Where is Nos 1 2 & 3  
Words for happy  
Days - No 3 sounds  
good - & parents' will  
be ok~~

- ~~Victor -~~
- ~~1 = get a Xerox~~
  - ~~2 = try non tape and tape format~~
  - ~~3 = who is and field format one part news  
other still~~
  - ~~4 = sample tape~~  
  
~~temporal dimensions  
removing 2 parts  
of 1/2~~
  - ~~5 = get Dept, Did a patent running  
the script~~
  - ~~6 = Goodwin get Wilbur, & type check  
and different in transcription, down  
to 50, 2nd hand, will do, & Wilbur  
a 3rd hand, next '00~~

~~Get 6 double draws  
for Moore,~~

~~Roll Composites to break  
transfers & reassemble  
until new lines appear.~~

~~Moore, etc values for  
presses - so ground values  
without almost all  
press down~~

~~See Valdes & Shulps  
shop & find new  
dishes -~~

~~Have Dally start  
Rettus & cleaning  
out records~~

~~See Phil get fund info  
so many inspections -~~

~~Give Fred all  
Victrola funnel  
device +~~

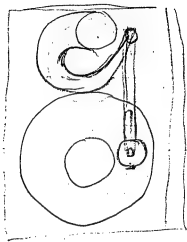
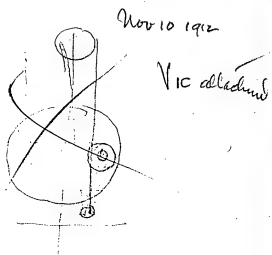
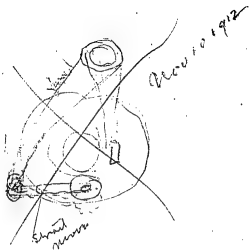
~~Get Victor approved  
have Neachin  
tell Fred all  
work for it -~~

~~Give records for  
repair -~~

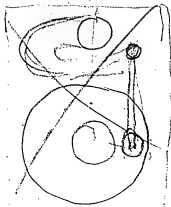
~~See Robb get  
off records of  
lots -~~

Nov 10 1912  
Gloves for ~~W~~ -  
Revolving needle device  
Rear gears -

What is it Skolnik  
Romana that sonaps  
123 123 123







Tell ~~me~~ to ~~change~~ the  
Mould box to the backing &  
Mould,

Get the 6 boxes for Prints  
of put them ~~at~~ work -

See Eckert ~~or~~ get  
Stock on ~~and~~ in -  
detail ~~of~~ accounts  
& all information ~~so~~  
& can close out ~~for~~ ~~the~~

~~How~~ ~~best~~ ~~to~~ ~~do~~ ~~the~~ ~~work~~ ~~on~~ ~~the~~ ~~press~~ ~~and~~ ~~the~~ ~~valves~~

Arrange with Nicolai  
about taking ~~over~~  
night foreman for Press  
outside

See Oyer - ~~off~~ 5000 feet  
film -

Badger in see grinding  
Valves =

Ordered Valves 32 Valves  
Burns ordered them =

floor in ~~2~~ for process -  
Burns ~~is~~ steam filter  
went ~~for~~ ~~material~~ - see Weber

## New Arrangements

1 = find salary of Dickson, Stevens, Meehan  
Horton, Maxwell ~~and~~ with Grace hands.

2 = E friend ~~V~~ PCCs

3 - Polyn. District, ~~of~~ film C

4 - Wilson's bank ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~

5 - Show him how foreign Dept handles file  
- all in Europe - salary ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~

6 - Maxwell, ~~Maxwell~~ ~~Maxwell~~ ~~Maxwell~~ ~~Maxwell~~ ~~Maxwell~~ ~~Maxwell~~

7 - find out why we employ two patent  
spec writers & what they do besides  
that also how does dept ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~  
How many people in legal Dept,

8 - See Nelson & W. do not ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~  
understand Nelson ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~  
about everything ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~

9 = See Ernie & raise salary Feb 3 day  
& give him ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~  
down just what he is to do & approx  
time & why ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~

10 Arranging Handy Miller's final  
Woodscroft ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~  
Checks - ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~

11 - Review Dolly's ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~  
& see if truck works

12 = Watch how ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~  
is prospect doing by with house lighting

12 = see new room is ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~  
sufficient for Joz etc

13, Have Fred get some suits help him  
+ make extra speeches for Victoria

14 = See about ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~  
impacted &  
if Preman room ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~  
is not want  
man to make the ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~  
tool -

15 = Rig up the other photos to take  
which records & put it in old  
kitchen room for visitors -

16 See Hulse tree ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~  
Hansen  
+ Room ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~  
parking ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~

17 see Wicks about ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~  
he is no  
clean filler only a bumper  
+ richie chat ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~  
Bender get a man to  
be responsible for ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~  
whale ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~ ~~max~~  
blg + repair shop

18 = What is ~~Pringle's~~ ~~pages~~.  
Lillo Nehri - Lillo Dodd,

19 = see Dodd about taking ~~inventory~~  
of all blankets in his depot + list of  
big & big =

20 = Write where shall we put  
the spinning machines we  
don't want - need the names

21 = Tell Wilson ~~bring~~ ~~negotiate~~  
for Pike at M. ~~big~~ ~~exchange~~ -

22 = What what ~~type~~ ~~place~~ shall  
we make ~~Spots~~ ~~with~~ ~~small~~  
Lumps - ~~Police~~ ~~Money~~, ~~other~~  
~~Revolutions~~ etc

23 = ~~Write~~ on the Disc table to ~~write~~  
it =

24 = Goldstein ~~where~~ ~~the~~  
gold powder -

25 = Wilson - about ~~align~~ ~~of~~ ~~def~~ ~~would~~  
records; why not have a set ~~check~~ &

arrange ~~exchange~~ for that amount &  
only info as ~~it~~ ~~sell~~ & not clutter up  
the ~~who~~ ~~buying~~ with boxes -

26 = Take an old model - see best way  
to ~~put~~ -

27 = ~~Manuscript~~ take all my Corr  
& answer everything possible - only  
put things he ~~can't~~ ~~answer~~ back in  
basket,

28 = Correspondence for ID ~~has~~ come to me

29 = Speak Cromelin & ~~proof~~ about  
small picture with ~~hand~~ ~~are~~ for  
cheap M.P. Theater - ~~make~~ ~~a~~ ~~deal~~  
with them to ~~work~~ ~~it~~ up -  
show the pics to them with ~~good~~ ~~are~~  
quite as ~~it~~

30, Dyes show document giving  
us right to use ~~few~~ ~~small~~ ~~PK~~  
from M.P.P.C.,

31 = see Huelch layout drawings  
for changing the ~~spinnings~~ on  
Art. of ~~spinnings~~ ~~work~~

32 Huelch ~~what~~ progress on  
each truck

33 = go around with ~~John~~ see  
what work is now ~~in~~ ~~shop~~

34 Badger get some drop pins  
for our clean piping hung on pipe  
by cover ~~how~~ until we get time  
to repair leaks -

35 = Check the ~~drawings~~ in vice see  
how it breaks up

36 = find a horn Victor, think  
Allen had one -

37 = get list of the 10 records  
sent to Houston -  
then make up a new list of 6

for each press & to ~~balls~~ & fill out  
the ~~to~~ Houston with additional  
ones to make ~~a~~ new bundle,

38 = put a ~~valves~~ on filling  
tube in flowing Machine &  
the outlet to prevent bubbles

39 = go with Nehr & Olson to  
flow below 21 ~~arrange~~ for  
inspection stop ~~on~~ shipping  
of disc records -

40 - Huelch ~~how~~ you ~~get~~  
on with ~~the~~ disc records

41 = Rubbe break ~~a~~ a girl to test  
Records - Moore find one or ask  
Nehr for old hand,

42 - girl on Moore machine to  
test ~~double~~ records & new print  
& transfer

43 - find out what heads of  
depts do, then duties, get it on  
type writer,

44 - Wilson if he got rounded  
Cups from head to etc for  
Repders - also boxes for  
Repders or Cardboard boxes for  
high powered recs etc -

Moors - How about Cups  
from Wall, lead - ~~up in house~~  
~~of the day~~ - ~~them~~ -

Ring, for sub matter  
moulds

Laundry Tickets  
Central -

Raise Erni  
Ernest Richter Check 7668  
to ~~Ernest Richter~~ 30 cents  
hours

Why not give print  
Labors

Wilson - get stuff out  
Leats, Bequa, remove,  
his stuff ~~he's want~~  
Tent ~~of~~ orange

Start on model B  
disc (theatre machine)

~~Grum Moore Vae  
As 4 baths  
grates Brass plate  
Capacity~~

~~find out from Dyer  
who are directors  
of W.P.C. or if objection  
to me taking presidency  
What duties must  
be performed,~~

~~Tell Budget get 100  
Class clean filter  
Burns n g~~

~~Harper, Cant use  
Egg Album, must  
Ewash Records~~

~~Arrange with Grum  
for Moore Records  
& more plates -  
at Lullie Carpenter~~

~~Halden Koble at  
Victoria gives opinion~~

~~Philip handle on  
pegg boxes -~~

3000 daily

Very rough estimate

Blank	6.00	—	3.25
Varnish	2.75	—	2.75
Talent 4 hrs day	13.00	—	13.00
Repair supply	2.00	—	2.00
	<hr/>		
	23.75	Cents	Receipt
	<hr/>		21.00

Frames & count	1900	—	—
6 quarts	900	—	—
10 men	2500	—	—
6 Ma chint	3900	—	—
1 Solder	350	—	—
3 Nigil-	1000	—	—
3 Repair master	1300	—	—
Supplies	2500	—	—
Light Power	1000	—	—
12 Inspecter	600	—	—
1 "	—	—	—
2 Transfery	800	—	—
Extra	1500	—	—
Current Cookout	1200	—	—
Dr. alg, Steam	500	—	—
Ice	500	—	—
Extra -	2000	—	—
	<hr/>		
	21,350	—	—

213.

paunders press 6 men	1200
Resin 4	800
Foreman 1	4000
Varnish 2	400
Press 4	800
Laborers 2	400

Flow press 2 press 6	1500
Laborer 2	400
Inspection	200

Transfer 3 press 10	2500
2 Laborer	400
Inspection	600
Laborer	800
Edging 10	3000

13650

Flow Varnish 15	2250
Foreman	700
packing 4	800
Laborer 4	800
Formacum 4	800
Plate Clean 4	800

130

Drivers 10	2500	
Truckers 4	800	
Drummen 10	2500	
Inspection 6	1000	
Extras 15	3000	
		<u>15950</u>

Steam power costs	60,00	
Repairs	50,00	
plates	15,00	
supplies	25,00	
Rest	12,00	
Extras	50,00	
		<u>\$ 212,00</u>

222
136
159
212
<u>72900</u>
3 248

~~9 weeks March of them  
do some more~~

~~10th is 15th people make  
bally Comptons as  
when they find mileage  
of best feels too low to  
put in, almost making  
inade -~~

Wilson - Make some  
No 2 Reproducer  
~~fact then~~

~~Open, good for  
David Steva -  
lost No 2 on New award  
Chorus - also other  
blatins -~~



~~Mason  
I asked for Mezzles  
with Sponges &  
Your Champ sent  
them without~~

~~Arrange it with Wilson  
that every shoe in  
N.Y. & Phila. W. shoes  
The shoes, & get 2 instalmt.  
for each - this is the  
cheapest & best form of  
advancing~~

~~Wm Smith  
Stock Room. Wks -~~

~~\$8.<sup>00</sup> work fairly bright 15 yrs~~

~~Bochman Smith  
There is certainly something  
wrong in your trials~~

~~Burns wife needs  
old hand repair~~

~~Have Mackay  
brat up to repair  
rooms so they  
can listen to  
see cards~~

~~Badger & busy  
on that compression  
Repair~~

Tell Walter McVernon  
that at first we only  
sent few of the Disc  
Cabinets to Argentina but  
do our best mostly in  
attachments & Records

W. Miller - Case to Carry  
blank, crack.

See about another place  
for plating such as  
Van Alstine ~~Engineering~~

Take up subject of  
Current for Suddall MP  
Machine -

~~arrange in Re  
Thompson's Day~~

Withdraw Mr. Lawdell's  
instructions & change  
about Vic attachments

Tell Jones about  
grafing Repair spats

~~Mullins - Offer Cost  
Bills, etc~~

instead of steel in  
drawing to scrap smooth  
part & see if it cuts better for  
grafing

Try KOT on a repair job,  
try grinding it down by part of  
a bit slow

---

Dyer 164  
 Nolbear 75<sup>00</sup>  
 McCheaney 75<sup>00</sup>  
 L " 35  
 Jretan 60 assistant to Dalbora  
 Stevens 100  
 Maxwell 96<sup>15</sup>  
 Eckert 75<sup>00</sup>  
 Weber 190  
 Nebr 40  
 Badger 30 - 35  
 A Wulff 40  
 Wm Pelzer 100  
 J " 60 Manager big & little Kineto Dept  
 Plimpton 115<sup>50</sup>  
 Dodd 40 45  
 Williams 40 Super Bldg plant Eng, Construction  
 Holden 96<sup>15</sup> Saw  
 Hardy 43<sup>50</sup> Pat of attorney, priv sec'dr, cliff  
 + other legal work  
 Madison 40 Chgo price and complaints, get hold of  
 + cleaning up other dis. closed + done  
 Bachmann 40 priv prof'dt appns, other legal work  
 Lanahan 48 ditto

Lewis 30 - Drafting - keep track fore & Pat  
 Brown 30 Drafting part of drawings  
 Unger 25 - Slang for Holden + Madson  
 Miss Landlow 15 get for them in suits in WI + others  
 Stalder 15 Enter amounts of appns filed  
 + follow reports + paper checked all  
 bills  
 Korb 17<sup>50</sup> Slang for Lanahan + Hardy  
 Boy 5<sup>00</sup> Slang for Brown + Hardy

- 1 = They have no ides + forget part  
clean
- 2 = Edges too sharp on cap Cut  
the record loop off
- 3 = many are cut too short,
- 4 = also burred at Edge in  
Cutting -

pressed 245  $\frac{1}{2}$  = 1500 170 steam  
bet granum &  $\frac{1}{16}$  plate  
did not flow out fully  
surface of ~~small~~ some  
Calliper 135 was out  
Reg 25-75 ~~shank~~ 2 to 1  
Calliper 166 -

2<sup>nd</sup> one Calliper 135  
3<sup>rd</sup> " " 126

Rings touched in reason didn't  
about 3<sup>rd</sup> one had thinner ring

Note perhaps 3 to 4 records  
will not stand  $\frac{1}{16}$  inch  
total 48 below 700,  
may not contact right  
in churning on press with  
Varnish & it will not  
low contraction -

244 after 1500 lbs Calliper  
140 - its ~~unmated~~ ~~the~~ ~~cross~~ ~~mark~~  
possibly covering the whole disc  
wiper off ~~OK~~ 140 - 3<sup>rd</sup> 140  
rings came together, didn't  
flow out in consequence  
disc OK -

243 - don't flow like 244

& 244 - Rings didn't  
come together yet didn't  
flow out, blanked look

1<sup>st</sup> 142 <sup>ground or cut</sup> 2<sup>nd</sup> 138 parallel - 8  
3<sup>rd</sup> blank 149 - 145 -

Jim get some of  
Newman Opera in  
both room as  
possible -

600)  $\frac{18000}{1800}$  (30-

30 men.

194  
288

Blacked below are fine to  
slight to surface or bladders  
even matter surface

These are made with 300  
lbs cream on pounds of black  
resin - instead of 500  
low MP resin only 3701 -  
180MP 10244 lot 236 grams

Phenol resin, 2 to 1, lot 259  
grams MP 225 10243

<sup>no 245</sup>  
Cresol high MP 3 to 1 237 grams  
218 MP

Reg 2 to 1 - 75 phenol 25 low MP

Cresol lot 324  
See page 6 data

1000 blank 2 to 1

228 1/2 lbs Cresol Resin 11.7-2647  
457 Wood film 1.2 578  
9 lbs lamp black 90

90  
33.15

4.7 c lbs of resin - 3.42 c blank

3 to 1 - 3.9 lb -

171 lbs phenol resin <sup>prime 16</sup> 23-20 4018  
57 " Cresol " 11.7 667  
457 Wood film 1.2 546  
9 lamp black 90

53.23

7.6 cents pound of resin

Need MP Resin 1/2 - want  
high to make good blank &  
lubricate forms so it flows  
not stick to plate.

$$\begin{array}{r} 120 \\ 25 \\ \hline 600 \\ 2400 \\ \hline 3000 \end{array}$$

2400 —

2400 —

5 100

$$\begin{array}{r} 400 \\ 2400 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \overline{) 80} \\ \underline{266} \\ 2 \\ \underline{532} \end{array}$$

Dodds Dept 6 months

2 new meters 2350  
 4 " " 4152  
 16" Disc meter A-4 1200  
 10 " Blanks 25 per way 680

Sales Blanks last 6 months

2 New blanks 28711  
 4 " Recording 37894  
 Dictating 137170 -



Die spots	77
Cracked	9
Moisture spots	19
Pruned	19
Rust on wood	1
Dis in plating	7
Broken coats	2
Buckles	18
Scratches	3
Defectors	14
More than double	3
Loopy	1
High notes ahead, off in pressing	1
Spotted in turning	3
Knocks	1
Repair spot a dent	1
Copper spot	1
Cracked in bath	1
Chips	1
Pin holes	1
Dig	1
Disordered	1

187 - \$37,000.

Varnish

967 Resin 33.5 %

195 Penta 6.7 %

39 nafs 1.38 %

80 6/4 2.77 %

1600 Alcohol 55.5 %

2881

Use 7.1 % 6/4 in -

The Resin Penta mix

When Resin is 100 & Penta 20

Use 14.2 % more denatured  
al than Resin & Penta mix

Aiken

100 parts of Resin Penta & nap

141.6 al Gelpot -

~~6.9~~ <sup>9.1</sup> 6/4 - with nap

7.1

4# K&L Renewal @ 21.50

270 lbs Seal at 8¢ lb

Drum \$10 material on sealers

Cost 3.36 per liter <sup>K&L</sup> <sub>60% pure</sub> <sup>12¢</sup> 21.50  
1.92 Lt

Grease, used in nickel plating  
amaster - - - - -

Copper uses 3 amp to cover  
gold then goes to 10 & high  
was 18 -

R29 - varnish

Resin - Pent. Phen + Nap -  
4/6 - + alcohol - Used by author  
& Premis -  
No. 11 one old nap. -

Viscous - Resin + 4/6 - and free phenol  
to vol. alcohol - 2.5 more 4/6 -  
+ Methyl nap. - alcohol -

Varnish between transfer  
is same as transfer Varnish  
with 4/6 - a CC the diff is the  
rest. (hardened) -

20 cc Aceton 5 cc Benzol  
disolv. 88 to 90% of the hard  
brille Petita, cooked at 368 Fahr  
+ Sol was fullness

20 cc Aceton + 5 Benzol takes up  
warm npt. 120 Fahr 850 mtg 4/6 -

This is saturated (and excess of  
fully powdered) 4/6 in alcohol

25 cc absolute alcohol diss 3 gm 4/6  
(powdered) in a flask cold. Take  
Coarsely stir very slowly

100 cc alcohol  
C<sub>6</sub>H<sub>6</sub> disolv. about 2 1/2 gm  
Petita

15 cc al 5 aceton + 5 Benzol  
left on filter was - 700 mg  
undissolved Petita -

15 cc al 10 Benzol  
dissolv 96 298 4/6 of the  
Petita powder -

I find 15 cc al + 10 Benzol alone  
dissolves 3 gm 4/6 cold  
If warmed slightly will  
take up 3 1/2 gm  
3/4 is limit at 150 Fahr

$$\begin{array}{r}
 4 \overline{) 45000} \\
 \underline{11240} \\
 33750 \\
 \underline{3375} \\
 30375
 \end{array}$$

$$\begin{array}{r}
 151875 \\
 \underline{30375} \\
 4556125
 \end{array}$$

22

$$\begin{array}{r}
 16400 \\
 400 \overline{) 65600}
 \end{array}$$

500, 1"  $\frac{1}{10}$

$$\frac{1}{1000000}$$

$$\frac{113}{1000}$$

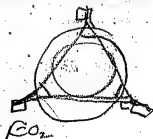
1" 1/4 / 1000 of lb

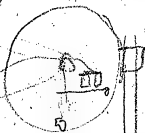
700 discs 62

$$\begin{array}{r}
 20 \\
 \underline{124} \\
 1728 \\
 \underline{1240} \\
 488
 \end{array}
 \quad (14)$$

7203

CO.



$$\frac{12-}{16} \\ \frac{28}{}$$


$$\frac{32}{44} \left( \frac{320}{308} \right) (7.3)$$

3

88

$$\begin{array}{r} 110 \\ 80 \\ 275 \\ \hline 815 \\ 550 \\ \hline 265 \end{array}$$

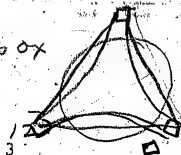
32

$$\begin{array}{r} 75 \\ 12 \\ \hline 150 \end{array}$$

25

$$\begin{array}{r} 30.5 \\ 21 \\ \hline 51.5 \end{array}$$

30 lbs ox



36

70

30 lbs Char -

446

12

12 lbs Char

$$\begin{array}{r} 446 \\ 12 \\ \hline 434 \\ 39 \\ \hline 395 \\ 22 \\ \hline 373 \end{array}$$

162

22

48

48

48

48

300, 1 hour

30 amps 1 hour 1.4

10

30 amp hour waste

15 amp hour

10 amperes

**Notebook Series -- Pocket Notebooks**  
**Notebook, PN-13-01-04**

The two dated entries in this pocket notebook are from December 1912 and January 1913. The book was used by Edison to record ideas about business matters, experiments to be tried, and other tasks to be performed. Many of the items have been crossed out. Included are notes relating to storage batteries and to battery applications such as automobile starters and miner's safety lamps. Also included are entries pertaining to improvements in the kinetophone, phonograph cabinet designs, and experiments with disc records. A series of irregularly numbered experiments, running in reverse order from 474 to 346, appears near the end of the book. The few business-related entries include notes about patents, patent applications, costs, and salaries. Also included is a two-page list of managerial and clerical staff and their salaries, which appears to be a variant version of the list at the end of PN-12-08-06.

Among the numerous Edison employees mentioned in the book are master machinist Robert A. Bachman; H. Grimes of the Disc Record Manufacturing Dept.; Sherwood T. (Sam) Moore, one of Edison's principal assistants in the development of disc records; and Carl H. Wilson, vice president and general manager of Thomas A. Edison, Inc. The flyleaf is inscribed "Final Entry April 28, 1919." The pages are unnumbered. Approximately 160 pages have been used.

PN-13-01-04  
E-1710

final entry  
April 28 1919

\*2996

See Moore on copy - how  
made 1000, then strip -  
attach for 2000 next copy  
Do you want more 3 pag  
for furnished Records

Give Graf + Cyfuselin  
2 sect. ~~and~~ records  
for ~~Wednes~~ 1 AM  
Murelania ~~the~~ take the  
records with them,

Wilson show at Essex Co  
Clubs -

Take up out of volume (take up)  
because no instructions  
were sent with them although  
Gall wrote them 2 months  
ago -



See Nehy ~~about~~ ~~grains~~  
Lathes they ~~put~~ ~~to~~  
Research ~~advice~~

See Gordon ~~in~~ ~~re~~ ~~new~~  
~~document~~

Send Willie ~~Weller~~  
Triangle Oct 19 ~~around~~  
Council + next act

Moore ~~Arrange~~ ~~that~~ ~~8~~ ~~months~~  
12 - one in 8 ~~months~~ ~~with~~  
paper ~~number~~ ~~in~~ ~~grains~~  
14 months ~~give~~ 2 pages 375  
25 750

Wilson ~~It~~

Get list people ~~to~~ ~~call~~  
+ employees on small PK  
+ describe how ~~to~~ ~~do~~ ~~it~~  
well out

See few ~~hops~~ ~~apart~~ ~~lathes~~  
in ~~shops~~ ~~work~~ ~~that~~  
grains ~~can~~ ~~use~~

Make ~~inquiries~~ ~~of~~ ~~any~~  
lathes ~~like~~ ~~grains~~ ~~wants~~  
are ~~in~~ ~~at~~ ~~all~~ ~~anywhere~~

New ~~Dynamics~~ ~~for~~  
plating ~~Sub~~ ~~in~~ ~~need~~  
Blade 6 Volts 2000 Amp

say its ~~balanced~~ ~~for~~  
to ~~fit~~ ~~from~~ ~~the~~ ~~cost~~  
fact ~~of~~ ~~the~~ ~~machine~~

See ~~Webb~~ ~~about~~  
dutton ~~Comp~~ ~~in~~ ~~cost~~  
Lenny ~~man~~

~~Elevation want a  
Bell in Wks 1/2) 7/2~~

~~James why do you  
make like moulds  
so thin you are  
Running 1/2 inch make  
make that thicker~~

~~Old Ry Home 2  
big seen selected on~~

~~John to 1/2 inch to  
delivered 1/2 inch -~~

~~James wrong  
L 1/2 inch (3)  
Crash in the air if  
get a 1/2 inch~~

Take a sample  
Sub Master gold  
it - plate Copper  
then test sheet  
Cap on Meas  
then remelt  
or several  
40/100 thick  
full process  
in 1/2 inch

found Adams the wrong under  
a contract between the building  
trading etc is put up on  
in writing for the company  
Mfr. has been found to be  
on the same, as fact is better  
beforehand etc, we reduce the  
advances made from the 10/3  
allowance - should anything  
occur to prevent for him  
taking the matters we must  
pay out 10/3 from 100  
Gains etc. etc. etc.

Technical Legal Dept  
How relevant that  
is for a record  
substance of 8/10  
of it - ~~Legal~~ ~~lawyer~~  
that process

### Applications -

1<sup>st</sup> = before main basis  
with new ~~forms~~ ~~changes~~  
for description

2<sup>nd</sup> Contra ~~collyer~~  
disc. may be used  
in cases ~~that~~ ~~are~~ ~~concrete~~  
The paper etc to deal with.

3 Repairing ~~Mack~~ ~~World~~  
prints for ~~number~~ ~~10/3~~ ~~words~~  
Rubbing grafts ~~over~~ ~~repairs~~  
spots etc

4 Fast Cycles for transfer +  
printing disc covering  
MP of 10/3 rows -

5 Membership on Edge

6 = What is ~~the~~ ~~of~~ ~~appn~~  
of transfer plates -

7. Has given ~~the~~ ~~method~~  
to ~~the~~ ~~company~~ ~~all~~ ~~this~~  
idea to make the demo.

8.

Wilson  
Dec. without has been  
done. Kip, Bixler etc  
about some very recent  
New Republic with  
Baillon etc - important

Ford, fine March  
div. Electric

Environ

Jacques Weiss

The Edison Kinetograph  
or Speaking Pictures -

Fred ~~will~~ make 1/4 inch  
diamond ~~Coupling~~  
Machin -

Make holder for second  
no ~~substitution~~

Suggest to Bachman  
that our Machin rolls are  
probably bad for Coupling  
We should be very light  
drum held together  
with spring as a ~~series~~  
unipressure -

~~Bachman - List of tools  
Required, Cramps, all  
appliances  
Silver Lake -~~

~~Wilson - Who looks after  
the Reservoir Dept.  
to know if things are  
being done right & not too  
expensive -~~

~~Bachman - How would  
it do to put in traps. Wells  
etc to do table & frames  
in 1st story really  
while they are building  
balance - weights  
let them go right there~~

~~Bachman why not  
try white metal in  
place brass hoppers~~

~~Cent pump is swamped  
by hydraulic Coal.~~

~~Silver Lake take up  
& make list of things  
required for it  
going -~~

~~Grimes - The birds  
are made of the  
particles kept in  
away from surface in  
rotating - Cant flow  
around quickly enough~~

~~Get some of his old  
40 lbs. of things  
He was a good  
& Co. and few more sales  
Maced -~~

~~Would keep people account  
of the situation, & will  
turn it over to Bill  
Chapman~~

~~Harry Leland will be  
Director of the school  
special training a cat  
in a special arrangement  
for life of the school  
throughout the  
afternoon~~

~~Went Reginald on  
Redfield's visit to work  
on hand of the  
expenses going on~~

~~ditto Reginald's  
House of the~~

~~Hold a range for trip  
Edna to the school  
Kammholz~~

~~See Buchman in  
the local building  
Cell - a ~~short~~ table  
music outside~~

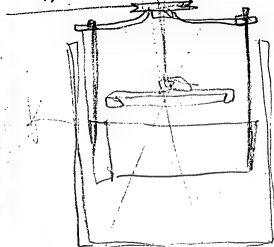
~~Grum - keep the air  
dry in the seat where  
we put the wood, do not  
successfully use double  
stems~~



32 screws

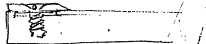
Primer - movement its cover  
 work with very powerful jet  
 water 1/4 dia at low angle to  
 work cloth out, do this  
 frequently.

Primer Washone



Primer - Your idea of  
 reversing after covering so  
 ok to dehydrate unless copper  
 gets rusty.

Philpat - for internal  
 Vermulung - supply coats  
 to men -



Latch, some finishing as  
 Buchanan had on guide.

by Sebastian call  
 lock it up

Wilson will receipt  
for ~~boxes~~

~~Ship California~~  
~~Reprints~~

Wilson ~~delights~~ <sup>has</sup>  
done with drawing 15<sup>th</sup>  
3 Reprints ~~now~~ <sup>of Wilson</sup>  
& Sunday ~~to~~ <sup>has</sup>  
over ~~it~~

Sec of ~~Reprints~~ <sup>Committee</sup>  
pic can be printed  
right away

Boxes go for ~~shipment~~  
get model to push it  
~~holding~~ <sup>holding</sup>  
and ~~W~~ <sup>material</sup> for  
~~Highland~~

Malloy - what has  
become of the  
Ornamental Concrete  
Scheme never heard  
of it

~~Wilson~~ & ~~Malloy~~  
where is that pure  
Limestone from W Va  
we are getting about



~~Wilson - hereafter I  
want to give a brass  
in the kind of the same  
Cylindrical hole  
cut~~

~~Try Tipta with Cowhair  
in front funnel etc to  
see what condition  
will be required.  
also Canvas -~~

~~Grimes get 30,000  
Reared to test in  
New harness~~

~~Halden. The slow  
sectional horn  
cant use get file  
Worship from tools  
clean them & reassemble~~

above search

~~Grimes gratefully a substitute  
to fill holes up with grates  
& remove or plaster does  
oil spots, then gold plate,~~

~~Grimes - Where is  
Lucy Anna Low~~

~~Tell Higham see weather Miller  
arrangement,~~

~~Dally - Cow hair screen for  
Braham 3K12 -  
see if Cow hair felt or  
get samples -~~

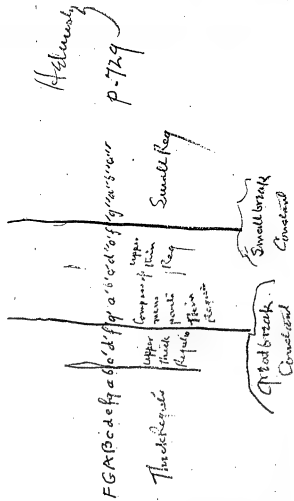
~~Bring up an extra plate so  
Can play back a Comel  
at house~~

deqats - Modern offers  
short sharp - House Sweet  
Home is using deqats  
to Piel Cants / soft  
long notes even

Speak to Kamenhoff  
about double lamp  
+ surrounding it with  
a liquid - for success -

Ask Engelke about  
Cook pulley

Get from duke + Oll  
the Scrimwood Cocaine  
+ try it sounding out  
+ Rebuilding



~~You will get the Camel hair  
then brush & clean it in  
Rocher & lay it on gold in  
current for 5 min then  
put detergent on~~

~~Henry & Ott on barrels~~

~~See Ward's in Re  
rag boxes & standards  
for blacking woods  
Blue chemical -~~

~~My little wood ply's  
H<sub>2</sub>O on one of pieces  
gold spots will black  
center~~

~~Look at phone books  
& map of all the streets~~

~~Steven's Company will  
fox test information  
about kettles on loan  
& have here after weekly  
report of condition sent  
me~~

~~See what Dodd's doing  
on morning~~

~~See about Dodd's  
Kettle~~

~~Picman - but a closed  
ring to stop sizzle on  
telephone~~

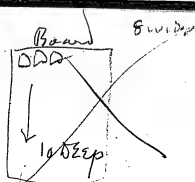
~~Harry's store book of  
painted records of  
let me see the book  
you have~~

~~Start phone records on  
new mounted. No. etc.  
How about using one for  
Jig - puts 80000 number  
get becoming from here~~

~~See floor 2 about records  
of shipping - also if  
Moss: check new schedule  
to get out file -~~

~~Move to try first building  
graffiti over 24 transfer  
a test for same etc~~

~~See what Rupp & Baker  
gets out my 7~~



~~Clerks Manning / says (yard  
123 242 year -~~

~~Niccolai - How about  
Philpate / excess -~~

~~Tell Wilson~~ for people  
etc.  
123 242 4 for 6 month  
246 484 - 1 floor  
64740, etc etc

Beckman Rec -  
about ~~Beckman~~ staff  
for 5 ~~weeks~~ get man  
for ~~Beckman~~ camp

Suggest Beckman  
open 10 ~~days~~ ~~over~~ ~~as~~  
local news  
on % basis to get  
sent,

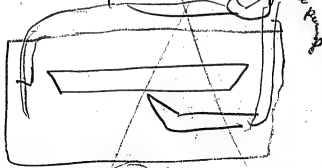
Try 005 which  
was very fine  
metal ~~found~~ up  
to back of up -

get them by get a  
Clement ~~cell~~ or  
advertising ~~cell~~ for  
white ~~way~~

Maxwell - We should  
find out who can give us  
trouble in a city on film  
etc. then go to them  
arrange to show it -  
preferably at their house  
a get on social side -  
at their expense  
take it up officially

get test phone for Max

Rec if ~~Max~~ ~~staff~~ ~~Beckman~~  
been published



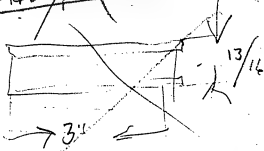


~~best solvent of all grease -  
that of alcohol - alcohol in  
water - all solutions -  
if animal oil - K&F 3% then  
water or K&F - the  
Al. or alcohol - Even weak  
K&F - or even H<sub>2</sub>O to mix with  
dishes etc.~~

~~1/2 doz. very large  
run transfer plates  
for grease~~

~~Running the part  
on - Wash Lead @  
Cups~~

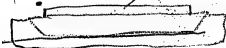
~~See about Cabinet  
Crown/press machine  
in Harpers Place~~



~~white pine -  
transfer to it &  
print -~~

~~grease -  
days - did you get  
the Discs for Regener~~

Transfer small



write  
Hicks to get opinion  
of Ct. Court Appeals  
in Moore ~~Johns~~ Case  
just decided. These  
judges are OK.

~~as discussed in the hearing  
last in court~~

New gold plated and  
smooth - all of old discolor  
in alcohol also drop in  
alcohol.  
my account. Ammonia  
KOH, etc - & thin plate

~~Have Kay's bring over  
Number book & check  
up board -~~

~~Mudd make 2 more  
boards other board  
& models on hand board~~

~~Wilson What does  
McCoy Detention do  
his salary - use  
him for papers -  
See Legal Dept,~~

~~Bill Eric left Woods  
second night when  
they come up says  
his time~~

~~Receipts go across to  
Gunn & Kaufmann  
how set documents  
for typing tools~~

~~Maccala hurry up  
would finish~~

~~Steam plates  
Nehr ordered them  
Rabuzin, Thorsen~~

~~Mudd Couple windows  
from Cases in Lab to  
go in Section between  
Edging Room & Phelps~~

~~Ordered 1000 1/4 x 1/2  
W - W - W -  
waited - y - y - off~~

~~100 big Dia 9 S  
plates from Benson  
ordered ordered Nov 17  
10 1/2 squares - where  
are they -~~

~~Luh look to test  
Ramon work~~



~~XXXXXXXXXX~~

or 2

~~3 powder black 3 to 1  
with metal between  
with transfer back  
side - 3 4 1 7 stop  
wearing~~

~~Learning  
50 10 2 2 8 8  
Came from~~

~~Reese on~~

~~test 50 deg. diam  
on disc~~

~~Perfect system of detecting  
Bad Wounds~~

~~Buy up new fixed plate  
system~~

~~Order Brushes, Finer~~

~~Order Hand Plates~~

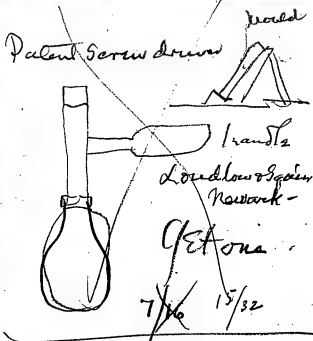
~~& Castings which would  
ready~~

~~Try making of steel heads  
to right than then Copper  
using Special solution~~

~~See if type writer made  
that will print~~

~~MANDALAY~~

~~letters that big - or some other  
Machine~~



Take up down 7¢  
to get margin -

Reese 1<sup>st</sup> <sup>Steel</sup> <sup>Steel</sup> <sup>Steel</sup>  
Mason & Co do 2  
per day - the <sup>Steel</sup>  
he has now only 1

~~Old Cabinet for Moore~~

~~Smith to bring in  
7<sup>2</sup> Book & start new  
one & enter up to date~~

~~Smith - How low have  
the old calls gone -  
Holland  
Be sure to save me  
100 3 yr old calls  
that for A 6 have  
naturally fallen  
below 100 amp or  
lower for regeneration  
expts -~~

~~Wish wood some holes  
on mandrel white r. Red  
Can dig. Mixed.  
200 completed -~~

~~J.P. Thompson  
41 Somerset St  
Plainfield N.J.~~

~~been Supt - had been field in 45' class  
white 20' 10' 10' 10'~~

~~Flows 741 on 1/2 by 25' 200  
plastic paint at 5' 10"  
pressure about 220~~

~~Burned, Hallam  
whats his change  
should know a  
raise~~

want

25 40


<sup>got</sup>  
60 80

~~Cylinder~~

~~Mess box next  
Conceded them~~

~~Tell Dally has pulling  
Rubber out process is  
Rotten!~~

~~Rece - put 6 holes in  
new plate to get ring  
off instead of 3~~

~~Rece -~~  
  
~~New  
Mount  
Net~~

Patent brushes Brown  
Control of back on plates  
Electrical Storage unit  
Sec. of res. of. Man Can  
Licence for discs -

Make up plate to  
press back and around  
new plate -

Try to make 11 plates in  
new brush holder -

Try substituting in  
bath with brass  
same thickness as  
transfer to the bath -

See about thin transfer  
of printing part it is

See about new bath  
face submersible transfer  
having it up -

Get holder from the old one  
about 2 1/2 x 2 1/2  
Puller from transfer

See Hays about new  
27 US films -

Having up a balance  
sustaining frame -

Make a Rubber Ring in  
steel to pour KOH on  
mould to put condensed

Phelgat why not put in  
blackening medium wheel  
is only preliminary can  
qualify change

~~Hutelo~~ Dry Eye, fine casing  
Copper, Mammal caught to Labell  
Mammal than night times the  
visual amount of these Copper

See Moore about operations  
with pins in ~~many~~ of OK  
tell Wilson go ahead -  
←

~~Nickelmy~~ (heard)  
7/10 lbs copper  
42 amp minute

~~Philpat~~ Pictures

~~Hutelo~~ - ~~Important~~ kept  
200ft along around  
Corner in Lab.

Wilson - ~~While~~ we are at  
it why not take up Keneophon  
- ~~Notes~~ ~~Samuel~~,  
+ other plans

Walter Note good plans  
in 922-1 - ~~Di~~ Barry  
why Cant all plans  
be as good as this -   
No blairy report voice  
loud + good records  
w

Power job so far  
Cost. \$14,000 - 9 Dec 24 1912

~~Look up books / notes  
made shelves with chairs  
that were like head at  
order my documents  
flow over submissions &  
press copy for submission  
& get plates~~

~~Look up the opera  
I had planned by  
Viola <sup>operatic</sup> <sup>summit</sup>  
and in early 1962~~

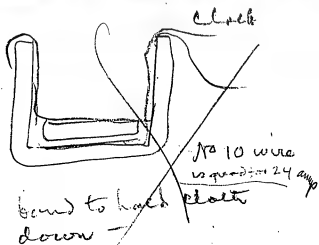
~~Daily schedule  
Subellus & Alfred Kimmel  
Some visibility as  
341 Varnish - flow then  
on transfer of jobs &  
try~~

~~When Kimmelff returns  
get timing from Hutch &  
have him make trip -  
turn over models to  
Bachman. give 3 weeks  
then returns to Cohen head  
of Chevrolet~~

~~Note of opera played to me outside  
- violin - make pot pour  
for Viola Call for help -  
of them~~

~~Wilson - We must make good  
on 450 Cabinet at Corcoran  
build special one - also  
make no more work  
by Clockwork -~~

~~Wilson and I have  
oil tubes put on all  
disc documents~~



Get 2 doz 3/4" transform  
or panels with  
+ Range  
Print on paper  
Mount on board

Golden = Use to pay 1/2  
of inflation expenses  
with Baskets -  
flow

Mason only 1 Car  
Came CP Lexington -  
Want 2 better and  
3 more

Wilson + How about  
Chris who says who  
has change -

Wilson - About getting a  
man like Thompson of  
Storage out to travel  
Continued among the  
Pic house + make money  
applied -

Take out some pattens and  
small green brick  
like Wilson's pattern.

Wilson - when Cant was  
arrange with  
Murdoch to get him  
men or local them  
ourselves, we pay  
1/3 when 2/3 like  
he would have good  
ones - see again  
he pay, open -

Over and Cant you work  
up a trade in Bog shores  
Motors in supply boxes -  
for all kind purposes  
high list & bag off

~~Pross use new clamp  
moulds as fast as they  
come in - needed 600 lbs~~

After / an 1<sup>st</sup> pay for  
alt for the best time  
same rate as day

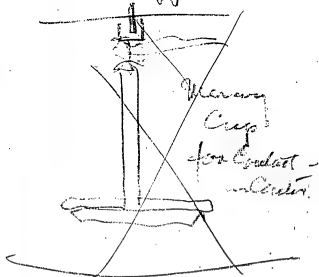
Boner - Kalkalen Monovom

Machung - Klatons to  
work the new machine  
Line shuffling etc  
ready -

5 more Rubber rings  
for ROK for Moore



Wilson -  
Night Inspector  
Philpot dept -  
Under offician



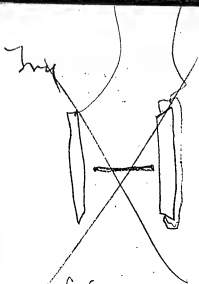
Harry Miles  
Cut Wilson's Pay Roll

Stevens -  
How about 15 copies in  
Amulation section  
New disc also. Records  
is it advisable to  
View of Patent Counsel

Put one man on taking out  
Victor type of patents on  
Kuniphone

Get ready for a possibly good  
Small Machine for perfecting  
Homek films for 5c theaters  
when suits go against us -

See that night in legal  
dept about Victor  
pats he started on



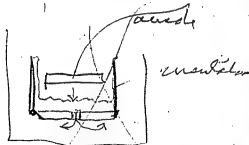
Copper

~~also long with so accorde  
2 ft across~~

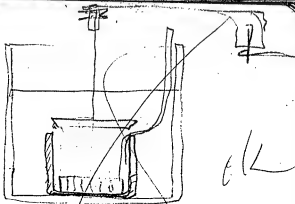
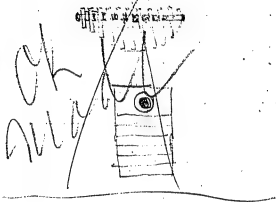
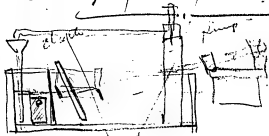
~~after 12 hours  
take out & use  
separately much  
of brass slaps  
Roughness~~

down all - plates Cu  
just enough to cover  
then nickel till it peels  
also alone (10 N) or 20  
see if Cu plates in frames  
peeling - Put wire around  
Edges - so easily peel -

down all - put up table  
so I can use kettle  
Ni. Disc: the Cu & al  
& fresh for way depositing  
most use Carbon



House Valt Reg. Water  
 Silver Soup (Big plates)  
 Silver Soup brushes on  
 steel logs -  
 Arranged on Centers,



Daily - find usually  
 permanent places  
 Clean all around  
 Recruit from  
 water tank -

Who see about  
 Sunday along  
 Valt, who was on  
 investigate

~~Wilson - take up Wfr  
of N<sup>o</sup> 2 & very soft.  
Reproducers~~

~~Grains 24 hours  
Punch balance  
re Rep. relations  
Jan I~~

~~Harper design cheap Gen  
Mund box clockwork~~

~~Harper - Hurry  
delivery of 2009  
150 clockwork with  
new design in  
view of OK~~

~~Dry Benzal for solvent  
for use of Rogers~~


~~Melt some \$50f -~~

~~Fix Rumbling in  
New Disc -~~

~~Patent~~



~~Several before over  
lamp area  
also in padded stage~~

~~packed in  airlock~~

Patent right for  
synchronizing

Patent amplifying

" Strong groups

Conners -

ditto, air phone

Combu -

apply to disc & patent

Patent use of telephone  
for advertising -

Patent two human torso  
releases as is possible

how fast turn pictures  
for phone work would  
let it go faster &  
smaller the gates  
a circuit

Not  
known

Pair of every second  
for ~~control~~ also

& ~~sequence~~

also new Records for Home of M. F. C.

Wilson - I had man to  
go over which factory  
to watch ~~for~~ a  
suggested savings -

Badman - New elec  
equipment for extension

Verminity of water  
reservoirs -

Wilson - Walter ~~talked~~  
without making report  
& ~~more~~ ~~water~~ ~~Wilson~~ killed

House on  
Chicago Steel -  
(11)

Wilson - Walter makes  
on Philippat of Wilson  
dept. possibly loose  
100 sets and boxes by  
bags passing like  
Shippat covering 150  
HP screen by bag passing

Expt 1st print of lines on  
sub-machine, James etc  
then print the lines upon  
wood. Heavy passing all  
defects, can be sent for  
1st print.

Stevens - Collect at  
once copies all the  
MS papers - mail  
cuts - also papers  
to Jerry - Australia  
3 official men at  
Bull, & Chino near  
Cromwell


Butch How about  
Stanley on the Hudson &  
Buick -

Tell Wreath to tell Reno  
not to be present about  
4 or 5,000 in Washington

Wilson - adaptability of  
Expenditure 25% of profits of  
Diz place in the evening  
Columbus

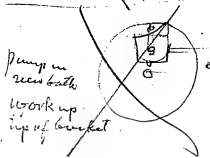
My fallow

January 4 1913

- ~~1.  Thin Cylinders Cellulose  
200 transfers upon  
ditto upon various papers blank -  
ditto Ivory Cellulose which Zinc coated~~
- ~~2 = Given Transfers press board  
Washed blank in it -  
then print the proper record  
on it~~
- ~~3 = Special Run of an over &  
Carry backing of Transfers Versuchs  
to 2.5 mil. 128 ~~the~~ clean  
pressure. 12 hours run -  
then transfers & print -~~
- ~~4 Write pat for single heliophot  
around an over & talking  
machine -~~
- ~~5 = Versuchs to see about  
American cells -  
buy on Taylor notes -~~
- ~~6 = Give list of lantern bulbs  
bring to Boston -~~

~~7 = Try again Kott on surface of  
a No. 1 var + 34.1 v blank  
to see if unequal~~

~~8 Arrive to get plate white  
Washed & covers with Cu  
20 min then try new  
Zphs 2 1/2 oz wet~~



~~Moors - buy up 2 or 3  
transfers Versuchs plates to  
100 lbs already heat few  
10 min see what they do~~

Wilson - The job will  
probably ~~be~~ make  
arrangements with Allen  
Sydney ~~don't~~ don't promise  
we can get more than  
sent money by buying  
Cart ~~reaching~~ without  
loss & if we ~~not~~ ~~reached~~  
must pay ~~them~~

Get a Copy of Theatre  
envelope ~~sent~~  
to look at ~~it~~ with  
Meador ~~it~~

Wilson ~~stealing~~  
films & ~~prints~~

Patent new ~~method~~ holder  
with 2 ~~well~~ ~~lead~~  
plates ~~pressing~~

Patent New ~~plate~~ <sup>in connection</sup>  
Claim it for ~~the~~ ~~kind~~ ~~patent~~ <sup>only</sup>  
~~to~~ ~~take~~  $\frac{1}{2}$  out  $\frac{1}{2}$  in of ~~the~~ ~~plate~~  
+ wires - the fence + cloth  
die + ~~connection~~ ~~of~~ ~~the~~ ~~die~~  
+ claimed to ~~be~~ ~~done~~ ~~else~~  
but not mentioned -

Patent die for ~~graffiting~~ ~~on~~  
New gold plates (then covered)  
with Copper, just covered then  
Nickel  $\frac{1}{2}$  was then a little  
in then  $\frac{1}{2}$  in covered  
times - then in cleaning  
the ~~was~~ ~~of~~ ~~the~~ ~~new~~  
used by - of ~~the~~ ~~gold~~ ~~off~~  
by ~~key~~



Hurry up big ~~Trump~~  
plates! want 80  
More make 250

Wilson  
~~Ambrosia C. bands~~  
Grand Ambrosia des

Rias-on/Vic Tenor  
I passed him OK -  
Listen -

~~Q~~ ~~P~~ ~~P~~  
See abt it ~~Bridge~~

~~Patent the ~~Wilson~~  
padded ~~you~~ ~~mean~~ ~~plates~~~~  
~~W~~

Make mix of 50% Cu OH &  
50% Ni OH 2 days ~~is needed~~  
Very fine, include in it,  
~~Wilson~~ ~~Wilson~~ ~~Wilson~~  
but Cu thin near plate or  
recorder,

~~Wilson~~ ~~about~~  
~~Vermont~~ - ~~Water~~ ~~Eng~~

60% 5 lbs. 40% ~~hampstead~~  
mud, ~~the~~ ~~best~~ ~~ft.~~ ~~of~~  
pressed ~~teleg~~ ~~bulb~~

~~Wilson~~ ~~Cont~~ ~~of~~ ~~project~~  
~~public~~ ~~Comm~~  
~~power~~

Call Recorder  
Dictator + Edison Dictator  
Phonodictator

Call Disc Phono  
Phonola brown

Phonol of disc Cordograph

Carbodictator Stentor Dictator  
Dictator Spherograph

See word Dict

Gramm ~~2~~ ~~1~~ ~~1~~  
was for what  
found at so it is better from  
center as well

~~Orchestra~~  
~~Acoustic~~  
~~Discophone~~

Harmonola  
Melodiphone  
Appo Apollino book  
Containing the records of  
several musical instruments  
Concerto  
Concertola Concerto  
Concertolo  
Cantata Cantata  
Autophone  
Pando  
Cremona  
Belcanto Belcantola  
Cantata  
Cantor Canto  
Cantonnelle  
Chantor Grand Chantor  
Choraleon  
Concertino  
Componenza  
Dolcerana (diff. sound)  
Ephra

~~Wax  
Spray - Do you take  
off Kuch on alabed (near)~~

~~Learn Oil Req up  
a jar for steam plating  
at another place  
to get pipes w/out acc of  
Curt get and see  
This report for thin  
stick to Cu - plate No.  
120 amp necessary there  
Cu acc of small  
strip +~~

~~Fitted die characterized by  
labor & cost important  
class a material used  
recessing~~

~~also by mechanical &  
electrical plating of  
Resistance (12) still  
enough to prevent yellow~~

~~Badman  
Spray Lead Coils  
Hjerry~~

~~Sprays for Electrode  
& Dynamic man  
Wetlow man now  
Turned up~~

~~Moore had 2 Nickel cell together  
spent at 5 lbs pressure~~

~~Varnish plating over a  
submerged blank 20/100  
Print Cold & gold plate~~

~~Make some Engraving Varnish  
with 1/2 Pinesol <sup>1 3/4</sup> + 1/2  
gum Kauri + 1/2 Resin  
double the qty~~

# GREAT

Wood oil polymers at 280 cut  
 to hard elastic material, make  
 some transfers on gum plates  
 polyesters of ~~Wen~~ ~~tracing~~  
 it does it in  
 10 min - perhaps will do it  
 soon time of given time

Costs  $7\frac{1}{2}$  to  $6^c$  lb -

could probably improve,  
 Perilla oil also polymers

~~See if they make a  
 form blank ~~copy~~~~

Low Oil make a plate  
 from Melaleucol ground  
 West Combustion →

Using  $1/8$ " Crystal has  
 try it on white wax  
 + plate top on it

Sonata Sonabala  
 Harmonola  
 Imperator Imperatola  
 Impusio  
 Legatola.  
 Camisphone  
 Liedephone  
 Lymphone  
 Lyragraph  
 Maestrola  
 Mignon  
 Museola  
 Pandyla  
 Orcheston  
 Sonata  
 Sonophone  
 Troubadour

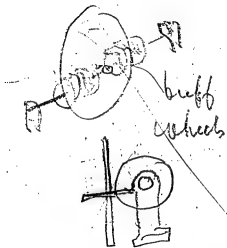
Symphonola  
 Tondala  
 Virtuoso

If we have no ~~Cheng~~  
 wood oil and gel  
 3 gal but ~~Barb~~  
 Gillespie Home NY  
 E Hill ~~for~~ NY

Gustallman 2-29

Good old, Buff & ...  
rough in the ...  
a ...  
the least a ...  
in the time

712  
Go down to ...  
But we ...  
Could rough ...



fix up the grafting block  
& get no ... then  
gold plate  
Use instead of ...  
Section or other very fine  
best hair skin -

Quinn ...  
sections of ...  
Found ...

All found high up  
softener which is called  
also very viscous ...  
No ...  
Non ...  
Keep ...

Put gold plated out NaCl  
in 10%  $H_2SO_4$  distilled water  
& dip it with Hydrogen  
then transfer to R. S. S. &  
Call & Cost —

Press a mix. of fine  
gold & platinum in  
sol. sol. solvent  
in powder on ground  
& put in  $H_2SO_4$  & ground  
H. S. S. & plants —

or mix with to wash  
transfers —

Act to magnetic  
Glas to open cell  
when closed  
plating  $H_2SO_4$  &  $H_2O$   
to cost

Get some pure  $H_2SO_4$   
grate to see how pure  
if impure purify it for  
Diss

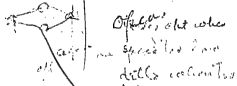
Durand A travels  
to introduce reaction  
in addition to advertising  
advocability of 2% on  
influenza  $H_2SO_4$  all the  
standard info —

Center Bank for new  
M. S. S. & S. S.

BISMUTH NI <sup>100%</sup> / FOR  
 MINERS Lamp -  
 Best in the lamp category  
 a fine for the work lamp

Best in the automobile  
 lamp category because in the lamp  
 appear to be appropriate

Des of legal Dept has the



In switch appear -  
 Standing "

Devap man - bundle  
 Keep def spreads -  
 Sep get ~~100~~ for ~~100~~  
 200 how ~~100~~  
 \$8 day -

Order 3 ~~Microdis~~  
~~Microdis~~

- New Varnish /
- 5 + 10% Gilsonite
  - 5 + 10% Zym asphalt
  - 5 + 10% Carmanite
  - 5 + 10% Rosolic acid
  - 5 + 10% Damar
  - 5 + 10% Mastix
- } powdered

Laying out Map (hand-drawn)

Paralite Sternum Patch  
 Eugonal Resin - Daramel

~~Continued~~

~~For new Varroa test~~

~~Dehydrated Kanamycin  
See if Zangheri's Crystal salt in  
alcohol~~

~~Look at Dehydro Chemicals  
near Crystal - salt at  
1/2 doz. of 100 mg. MP.~~

~~Boric acid salt in alcohol bottles~~

~~Succinic  
Tannic~~

~~Elemental sulphur, hard Zinc Alpha 112  
Resonator " " "~~

~~Get a germ transfer  
plate & decontaminate the  
varroa in 100% &  
precipitate by HCl -  
see if it precipitates  
condensate~~

~~Witchy Acids on small  
film boxes so light can't  
get off eggs down & see  
how they are generally~~

~~Dry solubility by combining  
with an acid~~

~~Dry 344 with 9/10 8/10 7/10  
6/10 1/2 4/10 3/10 2/10 of  
the egg capacity used.~~

~~Dry Trioxymethylene GWA  
was added to the Oxide  
N<sub>2</sub>O<sub>4</sub> complex to form 6/4  
combine to other alkali  
organics inorganic~~

~~Dry 344 with 2 5 / 10 &  
20% water -~~



~~Paraformaldehyde diss in  
limb or Biophin water -  
Evidently it will go into  
Alkaline Alcohol -~~

~~Thioformaldehyde given #8  
" " "~~

~~Methylene acetate given  
with acids when heated  
formaldehyde -~~

~~ditto Methylal - later  
found probably in Resin  
will be of some use in  
test~~

~~Methylene acetate  
form in phenol or  
Resin -~~

~~Usoos Change transfer  
schedule 12 transfer  
hold heat a process  
10% 20 50 & 100%  
longer - ~~del~~ of run  
out on a second.~~

~~Huffman 344 mixed  
twice as long a filter  
than 3 review -~~

~~Double flow  
3600 English lines -  
also 4500 -  
344 - 5000 white~~

~~Wood pulp~~

~~Quadrone with 15  
men out with 20 four  
reports~~

~~Moore, gives out 4 lbs  
2 girls, to rough test &  
she goes over and reports~~

~~Christmas-powder &  
Coil Asphalt like  
Subs in on 10% NaOH  
& Ethanol & precipitate  
get continued acids  
see voling they are like  
see of Continued volals~~

~~Lithium Chloride  
in alcohol~~

~~Dry amine Res.~~

~~Saccharate lime washed~~

~~Dry slaked lime in Resins  
to hardened & raise  
softening point~~

~~Anthrquinone~~

~~Negrosin, oil sol~~

~~amine~~

~~dry Benzaldehyde washed  
with alcohol on filter  
see of other Resins~~

~~amine~~

~~Carbazole 213  
234  
Cupf salal  
Dicyanogen sulfide MP 125~~

~~Carbamide MP 235 C  
Change  
by hydrogen  
Sulfone~~

~~Wash - Wash to clean  
Edges especially of  
Manganese  
Wash in Water~~

~~Tinned <sup>g</sup> sheets Rein  
Mumby~~

~~Chip out wooden Waste  
discards - Pollock~~

~~See alt Philpat. 6 days across  
away -~~

~~Plenon - <sup>1</sup>/<sub>2</sub> inch  
Litho paper all +  
4 inch <sup>1</sup>/<sub>2</sub> inch  
per inch <sup>1</sup>/<sub>2</sub> inch  
with a new distance~~

~~Goldplate - long  
Oxalic + H<sub>2</sub>SO<sub>4</sub> on  
Cresol to make a  
Rosolic acid,~~

~~See about filling a  
line from all range bally  
to <sup>1</sup>/<sub>2</sub> inch room for  
accidents - Nehr~~

~~Macdowell - Dredge profiles  
with 2000 feet of dredge  
it on surface for 2000  
feet - Diphoria Leucobona  
are at the top of the dredge  
and will act as sub for 6/4  
but almost~~

~~Tung oil and paraffin  
used in the dredge~~

~~Trillium and other plants  
found above the dredge  
also with other things  
using it as a~~

~~Indubium that will  
substitute Subellus in  
Linnæus's description~~

~~Smith - Why do you  
let Reg 72 pass so often  
at 1000 without calling  
my attention to them?~~

~~Neher - Why do you  
accept diamond holders~~

~~Wetzel - Why  
double diamond stop  
magnifying glass~~

~~200 cc. Equal amt of profile  
gold yellow -  
Hydrogen sulphide, 200 - 2m  
Set in small frames, washed  
on Recd. material with li  
silos:~~

~~200 cc of sol of Nitrate by  
has put in 200 cc  
ofucose, 200 10% KOH  
at d i Nit. K.C.C. clear.~~

~~take NO<sub>2</sub> to -~~

~~See Dodd get formula  
of black wax & see if  
cant get it so not  
affc. at d by moisture~~  
My experiment to get rid  
of loops both in black  
& white wax as they  
cause moisture seals

Dry 40% formaldehyde in  
water with cadmium - or  
Cadmium hydrochloride

Get some of wax Moore  
uses for wax submersion  
test to experiment  
Experiment at Rogers Co.  
Lynal it

Why not exhaust  
Steam - some filed  
or dissolved into  
venting system

~~Supply Contract -~~

Get Chief Eng. Marine  
D. D. Stain - ~~Chief International~~  
~~Association~~

Try Reg. Paula Vermish  
5% wt of Van, ~~compensation to~~  
~~fine grade -~~ ~~Coal~~ ~~shrink~~ in  
dry clay -

Kammachoff - ~~Good~~ ~~Part~~  
twice as deep.  
Pulverize in ~~various~~ ~~platform~~  
Double purifier, ~~use~~ ~~to~~ ~~from~~  
the 14 in addition,  
Iron plant separate, 10"  
4 inches, + Self to always ~~clamping~~  
150 ft away

Find Contracting Engineer  
for acid towers & blow pipe

Get Chem - Dept of  
Research - Corrosion wall  
acid furnace - ~~Condn~~ ~~by~~  
Etc.

~~Resistant~~ about 1000  
10% ~~min~~ ~~balls~~ -

Get a small paddle mixer or  
Egg scales + mix with ~~Edison~~  
blatrol ~~was~~ - Various  
positions + cast, use a blacking  
ant - ~~jump~~ ~~black~~ ~~lined~~  
Steel, or Carbamate ~~put~~ ~~Chalk~~  
Amorphous ~~strap~~ ~~to~~  
& Cast on ~~Resond~~  
4 ft under mixer  
Make good mixer by  
cut 2 hrs descs at end

Test all the deposits get a  
good black for ~~max~~ carbon  
including Royal ~~to~~ Crown & Crown

~~Send for some high  
grade ~~black~~ graphite~~

Dry lowest temp Reg  
was & my lathe will  
pour practically. Keeping  
would save a few dig  
water & treatment hard  
Micro

Start making TD 243  
Rep dex,

4 of max - ~~5~~ ~~discarded~~  
10 ~~of~~ fine ~~graphite~~

20

Fig - ~~expand~~ ~~will~~ ~~to~~ ~~to~~ ~~to~~  
~~discarded~~

ditto ~~5~~/~~5~~ ~~discarded~~  
5 10 15 20 %  
~~Temp. ~~discarded~~~~

Dry desalting Gutlat  
in very ~~discarded~~ ~~discarded~~  
pour over ~~discarded~~ &  
press ~~discarded~~ to warm

also powder ~~discarded~~ among  
graphite with slight  
amount of ~~discarded~~  
Cerium ~~discarded~~ ~~discarded~~  
also dry - ~~discarded~~ ~~discarded~~  
fine ~~discarded~~ - ~~discarded~~

3 more ~~discarded~~ discs

~~Bushnell  
Used with Wachelp  
was out 3 Weekdays  
30 AP~~

~~Wilson Salt Licks  
letter, and photography  
Photomicrographs~~

~~Nicolet - 8 T. d. m. f. m.  
plates - each mounts~~

~~Lay old wax spaced  
on wood + heat up  
till surface reddish~~

~~pour  $\frac{1}{2}$  of wax then  
put in a C. d. d. d. d.  
Mar  $\frac{1}{2}$~~

~~Thin in Cross both slope  
it from being wanted + bristle  
makes it smooth~~

~~Gravels in work sub will  
develop a blackening to  
Mould~~

~~Moulding Corn for  
Electrolysis~~

~~85% Redway yellow sermied  
10% Crude Virgin~~

~~Temperature 5% gravel~~

~~3% Burgundy black is added  
in column with electro  
keep it from getting too  
soft~~



Hydroxylamine <sup>Urea does same thing</sup>  
added to soap, &  
sol makes it bright  
& smooth

2.5% solution used  
Dec 27, 1933

Aluminate gives brighter &  
more reliable deposit  
when working with  
this soap

R, Copied off you give the  
present design of  
top of which shows  
if it don't attach read  
try it on graphite  
way, Louis Bell

Try for graphite on  
the top of which  
graphite will be used

It is these would do that  
probably slight to record  
& the extra few graf  
will stay it

Try to get double  
Rubber covers, Combs on  
2 or 3 bath, to see if  
it improves graphite  
substance

Tell ~~the~~ about calling  
me to something on  
surface of transfer,  
possibly left on plate  
or dirt which works  
with Condensers or  
it's top work to stand  
the pressure

Try Reg Var in Chem Room with  
late paraphenylenediamine  
add on GS. late see if goes  
off in drying plates in tray Chem 600

~~Edqui Elec 58 50% - failure to  
yet get Russian Bulletin -  
Don't consider Corrosion or  
9:00 am. 2. 10. 1941 -  
of iron gears. Russian  
govt. info -~~

Try in vacuum all the  
Copper salts of  
Acetic or Phosphoric  
Waste of Am. Chemical

~~Hoffman - Dip Acetamide  
& the others go. with  
20% more 6/4 in 7. ch.~~

Try Chloride of Amine

Try Copper with  
plates instead of Silver

News service to get daily  
Reports of price (see below)  
& describe  
Plates from  
Moulds  
Moulds with  
Records described -  
those about down plan  
& those to stock -

Drafting to trace  
Steam pipes & part 20  
drawing

474 12 lbs 80K 4 Disinfect  
1 didn't flow smoothly, 1 cracked  
2 peeled, 1 like good, free  
release good surface  
Transfer 80K 4 Disinfect (Checked)  
Plates OK  
Over looks very good OK  
!!!! OK can get here unless they want  
not quite as good as 475 but nearly

*Arafoko*

476 - 12 Discs 8 OK 4 Discards  
(reels) OKs good - fine surface  
4 chicks (discards, dark  
green color - Transfers  
6 OK 1 2nd small crack  
5 discards ~~to~~ pull out -  
~~discards~~ - look good - few  
plates - few bubbles on all  
24 - 5 Records 4 OK velvet  
1 very slight Run out

475 12 Discs 8 OK 4 Discards  
1 reel, 3 Run pick up. Wks fair  
Cracks mainly fine release  
Dark green color  
Transfers - 7 OK 5 Discards  
Over look, very good  
Plates all OK -

||||| OK Fast heat any surface  
1 just hear faintly a surface

**Finest yet.**

2 Subsequent Discs acc.  
sand cut some

455 - 12 Discs 9 OK

1 2nd (air up) 2 Discards  
~~discards~~ Cracks  
OKs good good surface  
Smoky coating nice release  
Transfers OK 9 2nd (air out)  
Discards 2 Cracks  
Over fair - air bubbles  
Plates some bubbles on all 24  
Discards 6 Cracks  
||||| OK Velvet very fine surface  
all ticks - All tick

477 - 12 Discs 5 OK 3 2nds  
cracks 4 Discards, pulled (cracks)  
works poor, cracks & early - Transfers  
seem thin - OK 6, 2nd 2 lift pull out  
Discards Cracks fine  
Over looks very good  
Plates - few bubbles on all 24  
fairly smooth, only  
table 1 Record, had RO  
||||| OK ~~fast~~ Not looked

459-8 Discs 4 OK / 2<sup>nd</sup> air spot  
3 Discards 1 peeled & Cracked  
free release also good.  
Var cracks when stands  
for feed license

Not tested

458-11 Discs 8 OK Discards,  
3 - (Cracks) looks good for  
surface - free release  
Surfaces cracked slightly -  
Transfer 7 OK 1<sup>st</sup> very small  
Crack Discards 3 pull out  
Oven looks for 2 air bubbles  
plates - Very few small bubbles  
Dis 6 - Cracked -

|||| OK result Very good

457-12- OK 5 2<sup>nd</sup> 1 (Cracks)  
Discards 6 & 2 Cracks 3 peeled  
1 peel up looks good free release  
Riveting Coating Transfer 3 OK  
7 Discards Cracked 2 into 2  
air bubbles Not tested

468-12 1 OK 2 2<sup>nd</sup>  
9 Discards (5 peeled 3 cracked)  
Works very good, slip to plate  
Transfer 3 OK - 9 Discards  
Oven looks very good,  
Oven some bubbles - all 24

Not tested -

460-12 Discs 9 OK 1 2<sup>nd</sup> Crack  
1 Discard - Var had some few  
air spots & light spider web  
Cracks - looks very good  
air spots show faintly  
free release - Transfer 4 OK  
Reheated 4 Discards 3 Cracked  
1<sup>st</sup> - very big air bubbles  
near edge  
plates 12 with bubbles  
24 put thru press - Discards  
6 - bubbles  
||| Run out slip.  
1 OK

470-12 Disc OK 3 2nd 3 (2 checked  
pick up)  
6 Discards (pasted, checked, no paste)  
Wkly Very poor, poor flowing  
sticks to plates. Thick amaly surface.  
Transfer 3 Discards 9  
Over looks very good  
21 plates cracked & bubbled  
9 plates not cracked  
Not leached

469-12 - 3 OK 5 2nd (2 cracked  
2 checked  
1 cur off it)  
Discards 4 Cracked Wkly poor  
Stick to plate Cracks easily and slowly  
Transfer 3 OK 2nd 3 pull out.  
Discards 6 - Over looks very  
good plates few bubbles on all  
24 - Not leached

459 -

473-12 Disc 7 OK 2 2nd  
3 Discards (2 pasted 1 cracked)  
Wkly good flows well free release  
||| OK - Velvet very fine -  
Transfer OK 4 - 2 2nd  
Cracked - Discards 6 -  
Over looks very good  
Plates OK -

478-12 Discs 10 OK 1 2nd (cur spot)  
1 Discard (small bubble)  
Wkly very good 3 sticks to  
plate forced off heat OK  
Transfer OK 10 Discards 2  
Cracked Over looks very  
good plates 24 OK  
5 Records  
||| OK very velvet  
1 Very slight RB on about velvet after dust  
1 Run out -

485	Chrysoidene	2 1/2%	Oct
486	Quinn Damma	3%	80% Oct.
487	"	8%	63% Oct
488	"	12	53% Oct
489	Salicylic acid	3%	
490	Salicylic "	8%	
491	"	12%	
492	Phthalic acid	3%	
493	"	8%	
494	"	12%	
495	"	2%	
496	Aniline oil	4%	
497	"	6%	
498	Acetanilid	3%	
499	"	5%	
500	"	8%	
501	"	12%	
502	Acid green GCX	3%	80% Oct
503	"	8%	12.6 "
504	Alkali Blue BR	3%	
505	"	8%	

1/5th  
more  
6/11 than  
pen

452 - 12 Discards  
4 OK 2 2nds 6 Discards  
not tested nq

451 - 12 Discards  
6 OK 2 2nds 4 Discards  
nq not tested

467 12 Discards 3 OK 9 Discards  
wks very poor 5 stuck to  
plate - 1 removed each off -  
not tested

466 12 Discards 4 OK 8 Discards  
5 var packed 2 cracked

This var wks good although  
5 plates stuck due to  
local corrosion in transpans  
good appearance seen from  
15' stuck to plate - all forced  
off in transpans  
not tested

444 - 12 Trans 9 OK 2 2nds 1 Discard  
1 Discard (cracked)  
Wks good 1 stuck to plate  
discard

Oven - very good  
Transfer OK 6 2nds, cracked  
1 scratch 4 Discards -

11 OK var  
1 very slight rind  
1 OK family velvet

448 - 12 Discards 4 OK  
1 2nd - 6 discards

nq not tested

449 - 12 Discards 4 OK  
3 2nds - 5 Discards  
nq not tested

450 - 12 Discards 6 OK  
1 2nd - 5 Discards  
nq not tested

446 - 12 Trays 8 OK 4 Discards  
3 Cracks 1 air bubble  
Wks good and some air pockets  
but when very little after  
transfer - free release

Transfer blanks OK 6  
Discards 4 - air bubbles  
raised on surface - 1 2nd  
1 pull out Oven - looks good  
Plates small air bubbles in  
all 24 plates from discards  
5 Cracked bubbles 1 -  
4 OK Very slight Red surface  
1 slight rim out - little curling

447 - 12 Trays 8 OK 2 2nd 2 as apart  
2 Discards, Var cracked, some cracks  
Wks cold - some air spots  
free release  
Transfer blanks 4 OK  
Discards 5 Cracked  
3 bubbles Oven looks  
fair few air bubbles  
1 Rim out, 1 OK not velvet  
2 OK fairly velvet

445 - 12 Trays  
8 OK 1 2nd (air bubble)  
Discards 3 - (2 var cracked)  
1 air bubble 2 good release  
some air pockets in some  
glass after transfer  
Transfer blanks 8 OK  
3 Discards Cracked  
1 2nd small Crack  
Oven looks very good  
plates - very small bubbles  
on all 24 plates  
1 OK  
1 OK velvet  
1 moderate Rim out



440 - 12 Train 10 OK 1 2nd

1 Descend, fracture surface  
Wks very good, no apparent  
free release, you had a number  
of air bubbles, mass above  
plenty -

Transfer 11 no air bubbles

Descends cracked 3 -

1 RO - cuts where finger marks  
to dent.

1 OK recast

11 RO dust cut

1 Single RO -

433 - 12 Train

4 OK 1 2nd crack

7 Descend (2 cracks 5 peels)

5 sticks, pins, forced off -  
all air out

Next level

437 - 12 Train 8 OK 1 2nd crack

3 Descend (1 crack, 1 peel, 1 air spot)

free release, cuts of 2

Plates, load with bubbles

Descends level 6 -

Transfer covered with air bubble

6 - Descends air bubbles, all out 6

5 Recast 1 Shift RO surface

" Velvet "

2 OK recast dust cut

1 OK cuts little -

Think all dust is dust + this  
marks 1/2 dust 1/2 condensation  
+ its not strong enough to  
stand pressure -

439- 12 Trms 11 ok 1 Discard  
Fair price - Excellent scales  
good fine black surface free  
reclaimers good - 41 -  
5 Rec 3 Shagreen Run out not velvet  
2 OK - Lowly velvet.  
Translucent scales 6 OK  
1 Early bird 5 Cracks  
Pl ate 5 Discards bubbles

442- 12 Trms 7 ok 2 2nd Cracks  
3 Discards 6 run out 4 packed around  
Edges - likely fairly good except for  
Edges -  
Translucent OK 2 Discards 10 Cracks  
2 Records OK velvet

414- Van all ~~completed up~~  
NG

388 all ~~checked on plates~~  
NG

438- 12 Trms  
9 ok 1 2nd light crack  
2 Discards 1 Crack: packed  
Velvet Very good force reclaim  
Translucent  
OK 2 2nd small spot  
Discards 3 Cracks  
Plates Fair as bubbles -  
Discard bubbles 5  
Open pack good -  
5 Records 3 faint run out Cracks  
1 Very faint Run out Velvet  
1 Run out -

434 - ~~plated all~~ ~~various~~  
Cracked in 100 pieces  
NG

444 - ~~plated all~~ ~~various~~  
all cracked up  
NG

430 ~~Var dials~~ Cracked  
up  
NG

435 - all ~~crd~~ up  
possible temp wrong  
in oven he mont. up it  
Cracked all from NG anyway

430 ~~Var up plates~~ all  
Cracked up  
NG

429 - 12 Trax  
OK 3 ~~2~~ Discards  
8 -  
NG

432 12 Trax  
6 OK 6 Discards  
Various about flow smooth  
1 Cracked & Var packed off  
free surface on surface only  
fair  
NG

436 - 12 Trax  
10 OK 2 into no discards  
Loks fine good surface free  
sealant few air spots  
Fracture 6 OK 2 into no discards  
Spots 3 Discards present  
3  
Open looks very good 1 P.D. ~~up~~  
111 OK 1 Small RD CRD

Vertical surface

421 - 24 plates 12 Trans  
9 OK 2nd 2 Van Coax  
1 Discards "  
(OK well - confusion slightly  
surprising free release A1)  
3 OK - identical 10000 some with  
very thick secondary confusion

408 24 plates 12 Trans OK 3  
2nd 1 - Discards 8 - 6 pick  
up 1 Van 2 Van peeled off  
did not test NG

406 24 plates 12 Trans  
OK 8 2nd 1 Discards 3  
1 peeled 1 OK 1 Check  
free release  
Transfer blank of OK  
Discards 4 cracked 1  
5 Records 1 OK 4 very  
slight thin with good releases  
velocity -

427 - 24 plates 12 Trans  
OK 6 2nd 1 Discards 5  
pick up -  
Transfer 3 OK 2 2nd  
7 Discards -  
No test NG

409 - 24 plates 12 Trans  
OK 7 2nd 1 Discards 4  
Van peeled 1 check 2 pick up  
Transfer OK 3 Discards 7  
2nd 2 - full out  
NG - no test

408 - 12 Trans  
3 OK 1.2nd 8 Discards  
NG, Submit test

442 Fuchsin base 10% sol  
 443 Bromo J  
 444 " 4A +  
 445 Auramine OCB Gno +  
 446 acid Violet 41818 conc 65% S (+)  
 447 Violet base 70% sol +  
 448 Methyl violet 383 65% +  
 449 Methyl G B Cy 21 +  
 450 Victoria blue 29% +  
 451 Speed blue 5 65% +  
 452 Methyl blue 33 3 1/2% +  
 453 Crystal blue 66%  
 454 Victoria blue 65%  
 455 Alkali blue 109 42%  
 456 Eriochrome 76%  
 457 Green M 100%  
 458 Acid Green 9 CX 85%  
 459 Acid Green 133 85%  
 460 Green base 107 85%  
 461<sup>50%</sup> Sh Chlor 91%  
 462<sup>10%</sup> " "  
 463<sup>25%</sup> " "  
 464<sup>50%</sup> " "

G.W.

465 Acetaminol 10%  
 466 " 12%  
 467 " 3 1/2%  
 468 alpha Naphthal 2%  
 469 " 8%  
 470 " 12%  
 471 Paratoluol sulfonamide 3%  
 472 " 8% 7 1/2%  
 473 Parachloraniline 3%  
 474 " 5%  
 475 " 12%  
 476 Amorphous Graphite 5%  
 477 " 10 1/2%  
 478 " 15%  
 479 Strontium Carb. 5%  
 480 " 10 1/2%  
 481 " 15%  
 482 Lamphack 5%  
 483 " 10%  
 484 " 15%

423 - 24 plates 12 Trans  
7 OK 2 2nd 1 pickup 1 OK  
3 Discards 2 Van packed 1 OK  
free release water small  
Transfer blanks 4 OK 4 Discard  
Cracked 1 dent on surface 1 Crack  
on surf 1 light pull out + saw bubble -  
5 Reverts - 1 Run out, chips in water  
2 Very faint 2 Revert out  
2 OK

454 - 10 Transfer made  
4 OK 2 2nd 4 Discards  
3 pealed 1 checked -  
Smoky - 2 stuck forward off  
discards

WJ

424 24 plates 12 Trans  
9 OK 2 2nd 1 spot 1 check  
1 Discard - Van pealed off -  
Water fine - good appearance  
free release A 1  
5 Records 4 OK 1 faint Run out  
Transfer Blanks  
6 OK 3 pull out 3  
Cracked Edge  
Transfer plates  
2 OK 1 Discard, raised  
5 bubbles -

422 - 24 plates 12 Trans  
9 OK 3 discards 1 Van pickup  
1 Van OK 1 pealed off  
Water very weak - good surf  
free release A 1  
4 Records 2 OK 1 Bad run out  
1 faint -  
Transfer blanks 7 good 2nd 1 pull out  
4 discards OK 2 edge

392 - 24 plates 12 Trans  
2 OK 10 Discards -  
5 cracked at Edges - pieces peeled off  
5 Van stuck to plates in small  
pieces - surface cracked  
NG

391 - 24 plates 12 Trans  
4 OK 8 Discards  
all stuck to plates in  
pieces - 4 have small pieces  
pulled out 2 Van peeled off  
2 didn't flow to good surface  
Vanish because slipping in to  
action  
NG

405 - 24 plates 12 Trans  
4 OK 8 Discards  
1 Van didn't flow smooth  
Van pick ups - poor work  
stuck slightly to plate

416 - 24 plates 12 Trans  
5 OK 12 - 6 Discards  
3 max - 2 Van pieces 1 Pickups  
NG

420 24 plates 12 Trans  
6 OK 3 rbs 3 Discards  
free side on, surface slightly  
smooth  
2 OK 1 seat  
1 slight Run out  
2 Bad Run out  
Very shiny surface

395 = 27 plates 13 Trams 11 OK

1 2<sup>nd</sup> 1 - Van stick to plate - small spots - good why release free from plate, an occasional very slight cracks seen - looks well - good appearance -

1 B2 RO

1 ~~R~~ R

1 Slight run over surface not v short

1 " Cracks

1 OK - not good -

400 - plates 24 Trams

12 - 6 OK 2 rds cracked +

peeled with piece of metal

4 Discards Chd 1 peeled

looks good free release - air spots show up after standing over night -

11 Run over -

That's enough N9

405 - 24 plates 12 Trams

OK 4 Discards

didn't show surface

7 Van pick up - poor corky stick slightly to plate

N9

Don't run out, not very great surface - Buds accept -

404 - 24 plates 12 Trams

OK 3 - 2 rds Discards

6 - N9 didn't look

403 - 24 plates 12 Trams

OK 4 - 2 rds 7 - Discards

1 = air spots show up

after standing over night

looks well free release -

good appearing surface -

Didn't test - N9



420 - Coralac 4% +  
 421 " 3.5% +  
 422 Coralac 3% +  
 423 " 2.5% +  
 424 " 2% +  
 425 Hydroquinone 48% sol  
 426 Acid Mucic 50% more than part in  
 427 Acid Paraoxybenzoic +  
 428 Anhyd Santonin 85% sol +  
 429 Copper Chloride 26% more than part in  
 430 Quercetin 50% sol +  
 431 Menthyl Cap 50% sol +  
 432 Acid Meta Oxycyanoic +  
 433 Chloron  
 434 Quercetin 80% + 55% sol  
 435 " 20% 47% sol +  
 436 Acid Salicylic +  
 437 Nanking Yellow 30% sol  
 438 Rhodamine BX  
 439 Saffranine Base 61% sol  
 440 Phosphine 28% sol  
 441 - fuchsin RT 96.5% sol

415. 24 plates 12 trans  
 OK 12 no deserts  
 This var works fine give good  
 appearing results for release  
 A1 -

5 Records 1 Bad Run out  
 " 2 OK velvet  
 1 Slight Run out 1 seal  
 1 " not used

This is the blank out + most staining  
 due we ever had in like black  
 glass of shells, oxidation  
 this fine

419 - 24 plates 12 trans  
 1 Washed OK + var peel off  
 near hole ~~Dises Yellow~~  
 except 3 which black on one side  
 4 plates on other free release  
 with 5 Records  
 3 Slight run out surface only  
 2 Bad run out  
 Very shiny yellow  
 phosphine  
 even

393- 27 plates 13 Trams 11 OK  
2 Discards - These are all - in every  
way except each has a piece pulled or  
chipped off near edge. The Van shows  
up very well. Excellent appearing surfaces  
black - free from spots, or bumps  
no checks or cracks. More water try  
more says think will show up favorably.  
5 tailed -

1 OK - Very little cracks on this  
much better than all others for  
smooth part cracks, softer  
Velvet finish.

1 Very slight run out smooth very little *Cracks*

11 RO - cracks on smooth

1 OK - bad cracks on smooth

This is bad on RO -

387- 24 plates 12 Trams  
10 OK - 1 2nd small crack  
1 Discard - Van peeled off  
Went over to scale and finally  
a good appearing surface  
5 Records 5 Run out

386 29 plates 14 Trams  
5 OK - 2 2nd small run out  
7 Discards - 1 bad of Com. fairly  
heavy thick - all criss cross  
fairly - 2 OK 1 little RO  
1 to run out

399- 24 plates 17 Trams  
9 OK 3 2nd small crack  
No discards  
Wks good good surfaces up to  
don't check or break at Edges  
5 Records 3 OK

1 Slight run out  
Pretty good 1 Run out is ok  
Vanish

380 - 30 plates 15 Transfer  
OK 8 2nd 3  
Discards 4 - Van lifted  
up at Cr. knob 3 pecked off  
at Ed. pin -

5 Records 2 RO -  
3 Slight RO

383 - ~~24~~ none sat  
24 plates 13 Transfer  
4 OK. 8 Discards  
Records not certain

385 24 plates 13 Transfer  
13 OK - who well plates  
half an hour. Evidence of  
soft spots in some  
discs. otherwise good  
appearance  
5 2 slight van coat  
2 OK  
1 Run out

381 - 30 plates - 15 Transfer  
14 OK 1 2nd - small cracks  
Works fine - good appearance  
A1 -

5 Records 2 OK  
1 Very slight  
1 Trace  
Not black 1 Run out not black

382 - 30 plates 15 Transfer  
13 OK 2 Discards Van  
Cracked at Ed. pin  
Works well - all come from  
plates fresh - no etching  
good appearance

5 Records 5 OK -

Dry Chl Tin in Vacuum

Heldhol Gall sec'y  
"Insurance Engineering"

354 5% Rose +  
 355 10% +  
 356 Sucrose +  
 357 Phenacetic 5%  
 358 Beta Naphthol +  
 359 Cocaine - last remaining +  
 360 Phenacetic " +  
 361 Perchloric acid 50% sol +  
 362 Methyl orange 75% +  
 363 Benzoin +  
 364 Alpha Naphthol +  
 365 Para chloro phenol 10% sol +  
 366 Diacetyl +  
 367 Para chloro phenol +  
 368 Meta chloro aniline +  
 369 Para chloro aniline +  
 370 Para chloro aniline +  
 371 Para chloro aniline 91% +  
 372 Beta naphthol 91% +  
 373 Meta chloro aniline 91% +  
 374 Naph. 1% 100 +  
 375 " 2% 100 +  
 376 " 3 98% +

377 Naph. 5% 97 +  
 378 " 10% 95 +  
 379 Anthracene none sol +  
 380 Benzoin 50% sol +  
 381 Phthalic acid 100% sol +  
 382 Acetanilid " +  
 383 Anthracene none sol +  
 384 No 314, mixed base none sol +  
 + yellow base 3 unknown bases  
 385 Chl. Ammon. 38.4% sol +  
 386 Naphthalene 5% sol +  
 387 Benzoin 50% sol +  
 388 Benzoin all sol  
 389 Benzoin 85% +  
 390 Citric acid 100% +  
 391 Lactic acid " +  
 392 Lead acetate 75% +  
 393 Diphenylamine 100% +  
 394 Chloroacetic acid  
 395 Hexachloran +  
 396 Citric acid 86.65% +  
 397 Naphthalene 100%  
 398 Tartaric acid none sol +

399 Gum Dammar 5% salt +  
 400 " Rosin +  
 401 Rosin -  
 402. Stearn Pidge - potassium +  
 403 Water 2% +  
 404 " 5% +  
 405 " 10% +  
 406 " 20% +  
 407  $6/4$   $9/10$  natural amount +  
 408 "  $18/10$  " +  
 409 "  $17/10$  " +  
 410 "  $2$  " +  
 411 "  $4/10$  " +  
 412 "  $3/10$  " +  
 413 "  $2/10$  " +  
 414 Paraffin aldehydes 7.9 gram +  
 415 Para Benzylthioamino base 2% +  
 416 Acetic acid +  
 417 Boric acid pure technical +  
 418 Manganese chloride 135 gram  
 used only 61.5 gram sec. solution +  
 419 red color base +  
 Carbanil base  
 CMO.

372 - 28 plates 14 transfer  
 9 OK 1 2nd of disc good  
 1 Van pulled off Van left  
 1 2nd - good surface  
 Wks. only fair  
 5 Records 1 slight  
 4 Rain out -

370 - 48 plates 24 transfer  
 20 OK 1 2nd of Disc good  
 2 of which Van pulled off  
 near edge 1 Van OKed  
 Wks. were good, good surface  
 5 Records  
 2 OK B very slight small  
 pretty good Van

373 - 25 plates 12 discs  
 4 OK 1 2nd of Disc good  
 Van pulled off near edge  
 Van left in trial  
 Wks. only fair surface good  
 2 Records OK record surface

369- 43 plates 21 transfer  
18 OK 3 Overrun - 1 cracked  
at edge. 1 had small glass pulled  
from var 1 var sticks to plate  
near edge. W/leaky well  
Tried 5 3 very slight Run out  
1 Run out ✓ OK

365- 48 plates 24 transfer  
22 OK 1 2nd 1 Duct  
stick to plate but only 1 force  
then several in other 6 plates  
Near my cell or above seat  
Vernon's plates had some  
air bubbles in them may  
slow water

5 Records 4 OK  
1 Run out 1 Run out  
good

378 - Every plate blistered  
in oven + Champagne  
Top blisters ~~Red~~  
but still there is layer  
Condensate on plate  
Shows about 1/2" above  
on Condensate

390 - don't stick to plate  
at all - whole sheet  
Comes off in some cases  
+ perfect seal. Cases  
+ cracks, but repellent  
to plate. This is fine  
stuff to prevent sticking  
to plate a little in  
any vacuum probably  
stop sticking.

~~390~~  
Please  
confirm  
with  
plate

Water seems to be soft every  
particle will fungus nail  
bottom surface unsmooth bubbles

364 45 plates 22 transfer  
20 OK 1 ~~2nd~~ 1 Discard S  
6 sticks to plates all even  
app. amount 11 ~~discards~~  
Very little ground glass  
good discards

5 Records loaded

2 OK

2 Slight Runout

1 Very slight runout

363 52 plates 26 transfer  
17 OK 2 ~~2nd~~ since spots stick to  
plates 7 Discards, stick to  
plates in spots -

14 blank sticks to plates  
of which 7 OK + 7 Discards

10 loosened ~~10~~ plates +  
forward although to get off  
ground surface

5 Records loaded

4 OK 1 very slight RO at about  $\frac{1}{8}$ "

361 - 43 ~~brandy~~ plates  
21 handles 17 OK 1 2nd ~~unpassable~~  
Discards 3  
all have small holes, and use them  
in between a good Van to lay up  
3 Slight Run out 5 tested  
2 OK

fair Varnish

359 44 plates 22 handles  
12 OK 10 Discards  
2 Slight Run out  
1 OK  
3 Run out ~~Bad Varnish~~

362 36 plates 18 handles  
16 OK 1 2nd - slight op. hole  
1 Discard 3 Slight for an  
off 1 disc 2 OK - work well  
5 Records  
3 Strong Run out  
1 Slight  
1 OK

368 - 48 plates 24 handles  
20 OK - 1 2nd ~~checked~~  
Discards 3. ~~put out several pieces~~  
~~to the ground~~  
5 tested 1 Slight RO  
2 Very slight RO  
1 OK  
1 Run out.

366 - plates 45 handles 22  
15 OK - 1 2nd 6 Discards -  
12 Slight to plate 6 for an 2  
damaged in varnishing if pulled  
Van off - Don't use good -  
5 tested 4 slight RO 1 OK

367 45 plates 22 handles  
2 OK - 20 Discards  
Varnish pulled up -  
Every plate should have  
for an off -  
only 1 got thru 1 OK -



258 Beta Naphthyl -

partly ground surface -  
7 listed 6 ok run out fairly  
strong - Red back to red.

251 ~~Run out~~  
~~Run out~~

259 Run out

260 Run out

348 Run out

256 - ~~Run out~~

3 Run out 3 ok.

255 10% Rose

50 plates, small bottles -

2 left up in cover -

48 transfer plates,

24 transfer

17 ok. 2 2nd would pass

Comets - 2 2nd would pass

Comets -

1 Shred, 1 plate, Van peeled off  
near hole, 1 Van peeled off

1 with small cut 1 Van didn't  
flow well, 1 Cracked near

edge ~~Van~~ 5 discs

3 with slight cut 1 Cracked

Vanish 1 peeled Cracked

good black - Rep. ~~black~~

1 Run out, not as good but as

5% Rose

356 - 6. 2 had 6 no run out  
4 only a little. 4 ~~more~~ 6 left  
up in oven  
19 discs made 8 OK fair -  
4 - 9ths 10 Discards -

358 - 6 Records 1st Time No  
Run out. 2nd Time all run  
out 2 soft 1 bad -  
50 T plate small bubbles but fair  
8 left up -  
Transfer made 20 -  
8 OK 2 2nds 11 discards

378 Every ~~thing~~ ~~is~~ ~~not~~ ~~gold~~  
Phenomenon ~~is~~ ~~not~~ ~~gold~~  
blister is still ~~concerning~~  
Inorganic Solvent & gases  
for Combustion

354 Van / 33 plates  
Rough A. 5% No Run out  
7 tested no run out very smooth  
Velvety ~~no~~ ~~run~~ ~~out~~ ~~no~~ ~~run~~ ~~out~~  
beats 200 plates (100) 10 is  
100 is, transfered fine  
recall out 2 surfaces 2 small out  
near hole but ok 2 small to  
plate but some of them warm  
will be and  
50 plates Made 16 Records  
33 plates all came from ~~run~~ ~~out~~ ~~no~~ ~~run~~ ~~out~~  
good surface. 15 tested up  
in oven

No Run out

345 - 4 all run out

346 - 5 of all ok

8 Run out

Salaries

Oyer	154	154
Dobson	400	30
LEWIS	75	
Lowm	35	35
Fretton	60	
Stevens	100	
Maxwell	96 <sup>15</sup>	
Cook	75	
Wesley	190	190
Niles	40	
Badger	30	
Wright	70	
Palmer	100	100
J. Brown	20	
Pringle	100	192-509
Dodd	40	150
Williams	40	35
Chalton	96 <sup>16</sup>	
Hendry	43 <sup>50</sup>	Pat of salary
Mason	40	Proc. of the Court
Bachman	40	Pat. of the Court
Lambert	45	"

Leaves 30 - Duffin - trade for equal  
 Brown 30 " only 30  
 Unger 25 Sleigh's services evidence in  
 part of the war. Jackson  
 M. L. Laidlaw 18 of letters etc  
 Miss Walker 15 Sleigh's  
 " Rose 17<sup>50</sup> " of  
 A. J. Bennett 75 of 5000

Legal Dept 10000 year

55 - Adopt Boxwood

30 Governor -

4  
 4  
 5  
 2  
 3  
 96  
 332  
 52  
 1704  
 1760  
 1804

476 - graphite streak  
473 yellow varnish  
475 yellow varnish  
474 " "

40 ft steam -

58

56

103

182

$$\begin{array}{r} 44 \\ \hline 446 \end{array}$$

446

26

Wed 10 pm -

Thurs 10 -

Fri 10 -

Sat 10 -

Sun 10 -

10 o'clock

Saturday

10 months

100 daily -

200, 175

25

25

25

25

25

25

25

25

25

25

25

25

25

25

25

25

25

25

25

25

25

25

25

300

20000 (66)

150

66

132

60

3

244

37

44

66

88

110

132

154

176

198

220



14

13

42

14

182

50

32

10000 (19)

52

48

468

12

2

2 min

$$\begin{array}{r} 42 \\ \hline 42 \\ \hline 14 \end{array}$$

33

[ITEM(S) FOUND IN BOOK]

~~5 - 28 October 1947 -  
OK 2. Discovered 12 -  
Discovered in Co. Young's house  
New York City. 10/28/47  
6 cent. Vanadium  
+ discolored black 1/2~~

~~5 - 1 - 1 Received OK~~

374 - 24 g. dis - 12 pl. -  
6 OK in discolored  
4 similar to discolored + comp.  
poor work

5 Nov 1947  
2 Nov Oct  
discolored

<sup>17</sup>th test is redness - p-nitrochlorobenzene  
with Tin + HCl - which solution over distilled  
with H<sub>2</sub>O + distilled with Oxidation.  
see 3<sup>rd</sup> exp 196-

[ITEM(S) FOUND IN BOOK]

375 = ~~stop~~

14 ~~success~~  
5 OK - 3 2nd  
6 Discards -

~~all have you~~  
Pulled off ~~see - see~~ July  
As none of the ~~discards~~  
developed the ~~same~~ plan  
Free

Record on at  
found

375 - 28 pl. dis 14 tra

2 OK ~~Match~~

12 Discards ~~ng~~  
Ded ~~pl~~ second

Parachloroanthracene

100% ~~act. in~~ - Chloroanthracene distilled with  
K<sub>2</sub>CO<sub>3</sub> till solid gave off ammonia & H<sub>2</sub>O  
then substance was oil not solid on cooling  
Boil 14 30' 14' 10" - 2' chloroanthracene  
bleamed by active chlorine on chloroanthracene  
Yields by bromination large quantities  
1 part chloroanthracene to 10 parts  
3 parts sulphuric acid on 13 = 100% yield  
100% yield

**Notebook Series -- Pocket Notebooks**  
**Notebook, PN-12-00-00**

This undated pocket notebook, which was probably used in 1912, is not part of the run of "idea books" that constitute the majority of Edison's pocket notebooks. Instead, it contains notes by Edison on phonograph recordings. Some of the recordings are listed according to categories: reed orchestra, brass orchestra, brass and swing, instrumental quartets, general, and "explanatory talk." There are also references to the records being sent to baths A, B, and C. The pages are unnumbered. Approximately 25 pages have been used.



2480	gone to bath	C
2483	"	C
2515	"	C
2538	"	C
2579	"	C
2580	"	C
2583	"	C
2584	"	C
2582	"	C
2559	gone to bath	A
2560	"	A
2562	"	B
2563	"	C
2564	"	C
2487	"	C
2492	"	C
2384	gone to bath	C
2383	"	C
2248	"	C
2172	"	C
2574	"	C

2480	Ray Tune on the air (Collins)	A B P2
2483	Somebody Voice Calling Archibald	A B P2
2515	Where Strain on floor	A B P2
2538	Up, Rose of my heart Kevin	A B P2
2579	Whir Songbirds sing Randolph	A B P2
2580	Girl quingham gown Hindrayes	A B P2
2583	An Inch huss and Gillette + Cha	A C P2
2584	Machime + Rose	A B P2
2542	Come with gypsy love Kaiser C	A B C
2559	Amorella - Tanny	A B P2
2560	Drifting - Clarke + Archibald	A B P2
2562	Faithless heart Berry	A B
2563	Because + love you Berry C	A B P2
2564	Barcarolle Spencer-Chalmers	A B P2
2487	Midnight on my pillow Spencer	A B P2
2492	First fond lines Kaiser Berry	A B P2
2384	Stay, Freda stay Kaiser Fish	A B
2383	Love heart nie + Archibald	A B P2
2248	Something, Spencer Van Brent	A B P2
2172	Come when love lies, Quantile	A B P2
2574	The lawn swing C Miller + C	A B P2

2575 Queto bath C  
 2576 " C  
 2594 " C  
 2595 " C  
 2573 " C  
 2489 " C  
 2488 " C  
 1258 " C  
 2296 " C  
 2322 " C  
 2188 " C  
 1298 " B  
 2011 " B  
 1100 " B  
 1097 " B  
 1120 " B  
 2581 " C  
 2523 " C  
 2522 " C  
 2535 " C



Sacred

1

9

11

11 Have new home

2575 Swiss thoughts home C Miller C A B P2  
 2576 Alois with me " A B  
 2594 Wanderer Fred Martin A B  
 2595 Fleeting Vision " A B  
 2573 Old folks at home C Miller C new A B P2  
 2489 When King glorifies Fish - new A B P2  
 2488 W. S. Wilson Colorado Architect A B P2  
 1258 Then you'd remember me Hackett B  
 2296 Angus Mc Donald Harvett B  
 2322 Bandwagons dream Archibald B  
 2188 Come back to Ev in Quarante B  
 1298 Call me your Darling again Spenser  
 2011 Veato Pa quibbaul Miller A  
 1100 Home S home Quarante B  
 1097 Sweet Spirit bear prayer Harvett A  
 1120 Baby Rose Vian Brent  
 2581 Sweetly Solomee that Chalmers A B  
 2523 Lead kindly light Mix QT A B  
 2522 Perfect day " A B  
 2535 Love downcall love Kautz A B  
 1178 Marquette Fish

1425	Jesus escori (Sylvia)	AB
1426	O Paradis (Urtis)	AB
1431	To Panges (Bru) Melis	AB
1432	To son Pamos "	AB
1433	Suicida, Gioana "	AB
1427	De Wanders Urtis	AB
1434	Avs Maria Stalls - Melis	AB
1435	Makmata - Stokan	AB
1436	G. iulia Melada Stokan	AB
1437	Notte sul mare "	AB
1438	Aspiration "	AB
1439	Maria-Maria "	AB
1440	Amorosa "	AB
1441	Avs Maria Cav Rin "	AB
1442	Aeremata "	AB
1443	Arme visoi Mugunko Stokan	AB
1444	Ja lu pole d'anno "	AD
1445	Inquiete Irini Morbida (Cabin)	AB
1446	Voi lo Sapete "	AB
1447	Avs Maria (Bach) "	AB
1448	Maria-Maria "	AD
1449	Vias de Art "	AB

English Recorings

My Recog

Made New \_\_\_\_\_

1450	Ballalalla	Labra	AB
1451	Atchso del parate	"	AB
1452	Mattunata	"	AB
2125	Compano Tulo payo	Cawano	AB
2175	Yoi ya Sapata	Melis	AB
2176	Chui Sola Vergin	"	AB
2190	Ebban	"	AB
2218	Caro Nome	Bori	AB
2227	Ahfors Tui	"	AB
2648	Mangwito Fish	"	AB
2605	Maduchla (Recidolph)	"	AB
2607	Lookunyo Caprice	Architel	AB
2615	Beautiful Delta of Sea River	"	AB
2617	Garden of Water	Arch Fish	AB
2622	Villanelle	Mary Carson	AB
2624	Green hill for way	Kincaia	AB
2625	Dream about all species	"	AB
2645	(Recidun (Archylm))	"	AB
2657	Ecstasy	Carson	AB
2638	Eloia's Dream	Kinwini	AB
2633	Darling Helen Gray	Wix O	AB

Make one up quick  
 " " "  
 " " "  
 plated - C  
 " C  
 " C  
 " C  
 " C

- 2623 Let me see, Randalph C A B C  
 2616 Kind of golden Dream Spencer Arch A B C  
 2606 Now the Day is over M x O A B C  
 2602 Drink to me with thine eyes Rind ~~plated~~ A B C  
 2600 International Rag Corrine A B C  
 2418 Ho glances oh my Rain A B C  
 2644 The Bugler Chalmers A B C  
 2640 At times my heart Carano A B C  
 2639 Nancy Lee - Chalmers C A B C  
 2657 How Calmly the Love Mix O —  
 2658 Chg of Light Piquette Malsant —  
 2655 A Lurid on L Brauchin —  
 2652 Canyonetta "  
 2564. Tales Hoffman Spencer Chalmers A B —  
 2492 Bohemian spirit Fossil Line Haven Barry M D  
 2497 Emma's 1st Grand Line " A B —  
 2574 Sweet throats of home C Miller A B —  
 2574 Dawn Dewing C Miller & C A B —

Reed orch

2510	Lancelot.	A BC
2509	Dreams of Twilight	A BC
2393	Les herance	A BC
2497	Cupido Franto	A BC
2498	Alfaro d'Amor	A BC
2499	Phyllis Caprice	A BC
2386	City of Dalley	A BC
2302	Harpsounds	A BC
2304	Zephyr de Mai	A BC
2305	Ha Ha	A BC
2306	Spanish Serenade	A BC
2307	Un Reves d'Amor	A BC
2308	Corn Amore	A BC
2387	Bird of Gold	A BC
2392	Maidens Prayer	A BC
2509	Twilight Thoughts	A BC
2634	Ciganeros	A BC
2635	Scene de ballet	A B
2636	Grand Valse	A B
2619	2 <sup>nd</sup> Mazurka	A BC
2618	Corn Tassel Dance	A BC

2478 sent to bath C  
 2485 " " C  
 2490 " " C  
 2507 " " C  
 2532 sent to bath C  
 2533 " " C  
 2590 sent to bath B  
 2591 " " B  
 2592 " " B  
 2593 " " B  
 2496 " " C  
 2476 sent to bath C  
 2477 " " C  
 2484 " " C  
 2486 " " C  
 2501 " " C  
 2502 " " C  
 2503 " " C

### Brass Orchestra

2478 Patrol of Grandeman A B P  
 2485 Amen Patrol A B P  
 2490 Glow Worm A B P  
 2507 Too much Music (Dance) A B P  
 2532 Turkish Patrol A B  
 2533 Moonlight Rag A B P  
 2590 Yuletide Rag (Dance) A  
 2591 Lonesome Pine (Dance) A  
 2592 Miss Mexico Tango (Dance) A  
 2593 Bailon Comandery Mex A B  
 2496 Que Pasa Tango A B P  
 2476 Dance Wife Maroon A B  
 2477 Fountain Dance A B  
 2484 Dance of Fireflies A B  
 2486 Flaming Arrow A B  
 2501 Red Tulip Waltz A B  
 2502 Darkville Dance A B  
 2503 La Bella Cress A B  
 2505 Silver King Waltz A B C  
 2506 Etudiante " A B C  
 2536 Carnival Dance A B C

2540	Night's Frolic	ABC
2549	Flight of Gypsies	ABC
2546	Clair de lune	ABC
2504	Maritima Overture	ABC
2516	Tannhauser March	ABC
2578	Benediction Poignard	ABC
2579	Rienzi Overture	ABC
2547	Robert le Diable fantaisie 1	ABC
2547	" " 2	ABC
2457	Adieu	ABC
2626	Rag Time Nick	ABC
2608	After Sunset	ABC
2609	Hungarian Fantasia	ABC
2610	Ballet Music Fant	ABC
2611	Under the Eagle March	ABC
2566	Ruy Blas Overture	ABC
2567	Hungarian Rhapsodies 1	ABC
2568	" "	2 ABC
2569	Requiem Wobler	ABC
2627	Vienna Beauties	AB
2634	Fairy Tales Overture	AB



2630 | Garden of Rose

AB

Make new  
See about it  
" "  
See about it  
went now one

C sent to bath -

## Brass + String

2385	Dear Homeland (String)	A B C
2388	Song of Janico (Brs)	A B C
2514	Ange d'amor BRS	A B C
2524	La Gitana BRS	A B C
2525	Bittel. Doux BRS	A B C
2530	Americana Valse (String)	A B C
2508	Dominican Overton BRS	A B C
1267	Fluttering Dove BRS	A B C
1215	Hearts & Flower string	
1216	Recondita Amore Marshalli	
726	Educacion le stette "	F
951	In Quelle Trine Lobia	S
2603	Kukumi Tango	
2598	Mtth. Nocturne BRS	A B
2613	Souvenir et Regard BRS	A B
2614	Seolen te me BRS	A B
2620	Spring Maid Selection BRS	A B
2621	Artist Life Waltz BRS	A B
2597	Chant de Mad BRS	A B
2642	Opera d. Sim. les wally	A B C
	Hearts & Flower	A B

Plated C

2643	Brooklets Tale	ABC
2382	Song of Love (string)	ABC
2071	Rob Mouses (string)	BC
2247	Chanson Rime song	BC
2312	Invitation to walk BRS	BC
2385	Dear Homeland (string)	AB —

New one

parsed C to both

### Instrumental Quartets

-1236	Memories of Home	—
2204	Mountain Echoes	A B C
2588	Nocturne	A B C
2589	Pure as snow	A B C
2641	Memories of Home	A B —
2165	Dream Tyrolensis	B C
1323	R. Mavrounson	B —

General -

2599	Chalangua Lela	Vincent	A B
2379	Meditation Thais	Kronhob	A B C
2062	Ben Balt Violin		B C

all B's passed to  
Leath

### Explanatory Talk

2552	82521	A1
2558	83010	A1
2553	83011	A1
2557	83006	A1
2556	83008	A1
2555	83015	A1
2554	83005	A1
2551	83013	A1
2550	83012	A1
2545	83009	A1
2544	83017	A1
2543	83016	A1

93

21

40

23

4

185

92 Doses

**Notebook Series -- Pocket Notebooks**  
**Notebook, PN-13-07-12**

The first dated entry in this pocket notebook is from July 1913, although the book was probably started at the beginning of the year. It was used by Edison to record ideas about business matters, experiments to be tried, and other tasks to be performed. Many of the items have been crossed out. Included are technical notes relating to electroplating, disc records, automobile starters, batteries, home projecting kinetoscopes, telephones, and electromotographs. Many of the entries pertaining to disc records are preceded by experiment numbers, which may correspond to experiment numbers in other notebooks. Toward the end of the book are business-related entries regarding problems with disc record manufacture, costs, labor, orders, investments, and the financial standing of various Edison companies. Similar information can be found in PN-13-09-24. The last two pages contain notes in Edison's hand about the social activities of his wife, Mina Miller Edison, probably during the period April 22-May 15, 1913.

Among the numerous Edison employees mentioned in the book are chemists Jonas W. Aylsworth, Peter C. Christensen, and Ignacy Goldstein; master machinist Robert A. Bachman; experimenter Charles T. Dally; William W. Dinwiddie and Sherwood T. (Sam) Moore, two of Edison's principal assistants in the development of disc records; Harold H. Smith, chief of the Battery Research Dept. at the West Orange laboratory; and Carl H. Wilson, vice president and general manager of Thomas A. Edison, Inc. There are also many references to industrialist Henry Ford. The pages are unnumbered. Approximately 160 pages have been used.



Philpot wants tanks

45" dia 8' deep

or 45 x 30" by 8' deep

1 Tank for water 3 Tanks  
for dipping

---

Try Chloride of Arsenic -  
+ other organic salts

Try various plates of  
different metals

---

Druggists to make  
blue print water &  
clean dip pen 10 lbs  
9 Feb -

---

Hydroxylamine added to  
a Copper solution  
makes deposit brighter  
& smoother

---

CuSO<sub>4</sub> bath gives more metallic  
deposits when its  
acidulated with  
Nitric acid unless acid  
at 250°

---

Time Copper bath  
stops working +  
diminishes Cu with time

---

487-24 plates 4 Discs  
2 CR 2 2nd -  
Truncated 1 CR Discards  
2 2nd 1  
plates - all have bubbles  
7 plates not cracked  
20 plates Cracked  
NQ Not tested

---

486-12 Disc 6 CR 6 Discards  
4 War peeled 2 Cracked -  
lots of good pieces of chrome  
Cracks 2 on 1  
plates Discards 7 Cracked  
Transfer some bits on wall  
24 plates Over plate  
Open / coats good some  
are blown  
Not tested NQ -

---

485-12 Discs 8 OK

1 2<sup>nd</sup> Cracked 3 Discards

2 peels 1 peeling

Wks good, free release

Transfer OK 3 2<sup>nd</sup>

dis comb cracked 4

Other looks good few air bubbles

Transfer small air bubbles  
in all 24 Discards 3

Passed

484-12 Discs 8 OK 1 2<sup>nd</sup> Cracked

3 Discards peeled

Wks very good fine surface

free release

Transfer OK 8 2<sup>nd</sup> comb 4

Cracked - Other looks fine

few air bubbles

Plates had tabs on all 24

483-12 Discs 7 OK 2 2<sup>nd</sup> Cracked

3 Discards 1 peeled in Crack

Wks good fine surface

free release

Transfer OK 5 2<sup>nd</sup> 2<sup>nd</sup>

Roll out, Discards 5 Crack

Other looks fine air bubbles

Passed but on bill -

354 Rosolic acid 5%  
355 " 10%  
356 Succinic  
357 Phenanthren  
358 Betanaphthol  
359 Resorcin.  
360 Phenacetin  
361 Perchlorobenzol  
362 Monomethylparamidiphemol  
363 Benznaphthol  
364 Alpha Naphthol  
365 Paratoluolsulfachloride  
366 Di Oxynaphthalene  
367 Paramidiphemol  
368 Metatoluylenediamine  
369 Paradiethylphenol  
370 Parachloroaniline  
371 Paraphenylenediamine  
372 Beta Naphthalamine  
373 Metaphenylenediamine  
374 1% NaOH  
375 2% NaOH

377 5% NaOH  
378 10 " "  
379 Anthracene - not sol.  
380 Benznaphthol 50% sol  
381 Phthalic acid  
382 Acetanilide  
383 Athraquinone not sol.  
384. Req 384 mixed twice as long  
385 Chloride Ammonia 38% sol  
386 Naphthalenetetraochloride 5% sol  
387 Benzole Pot 55% sol  
388 Crotylic acid  
389 Phenanthrene  
390 Oleic Acid  
391 Lactic acid  
392 Lead Acetate  
393 Diphenylamine  
394 Chloralhydrate  
395 Hexachloroathan  
396 Citric Acid,  
397 Naphthalamine  
398 Tartaric Acid not sol

399 Gum Dammar 55% sol  
400 " Resin  
401 Resin  
402 Sterine pitch not sol  
403 Water 2  
404 " 5%  
405 " 10%  
406 " 20  
407 6/4 9/10 of Req amt  
408 8/10  
409 1  
410 1/2  
411 4  
412 3  
413 2/10  
414 Paraformaldehyde  
415 Paraphenylenediamine basic 2%  
416 Acetate Potash  
417 Boric Acid  
418 Manganous Chloride  
419 Acetate Magnesia  
420 Rosolic acid 4%

421 Rosolic Acid 3.5%  
422 " 3%  
423 " 2.5%  
424 " 2%  
425 Hydroquinone 73% sol  
426 Acid Mucic ?  
427 Acid Paraoxybenzoic  
428 Santonic acid anhyd 85% sol  
429 Copper chl ?  
430 Gum Gamboge 5% 50% sol  
431 Mambila Copal 60% sol  
432 Acid Metaoxybenzoic  
433 Quinine  
434 Gamboge 10%  
435 " 20%  
436 Acid Salicylic  
437 Mankind Yellow 30% sol  
438 Rhodamine BX  
439 Saffranine Base 61% sol  
440 Phosphine 28% Sol  
441 Fuchsin  
442 Fuchsin base 10% sol

443 Bromo J  
 444 " 4A  
 445 Auramine OOB Conc  
 446 Acid violet 4 BNS Conc 68% sol  
 447 Violet base 70% sol  
 448 Methyl Violet 3PB 68% sol  
 449 Violet 6B  
 450 Victoria blue base 29% sol  
 451 Spirit blue 68%  
 452 Methyl blue PB 3 1/2%  
 453 Alkali blue 66% sol  
 454 Victoria blue B 63%  
 455 Alkali blue BR 46%  
 456 Erioglaucine 46  
 457 Green M 46  
 458 Acid Green GCX 8% sol  
 459 " " BB 8%  
 460 Green base 1107 85%  
 461 Shellac  
 462 10%  
 463 25%  
 464 5%

465 Acedanilide 8% }  
 466 " 12% }  
 467 " 3 1/2% }  
 468 Alpha Naphthol 3 }  
 469 " 8 }  
 470 " 12 }  
 471 Panalobutylsulfochloride 3 }  
 472 " 8 }  
 473 Parachloramine 3 }  
 474 " 8 }  
 475 " 12 }  
 476 Amorph Graphite 5 }  
 477 " 10 }  
 478 " 15 }  
 479 Strontium Carb 5 }  
 480 " 10 }  
 481 " 15 }  
 482 Lamp black 5 }  
 483 " 10 }  
 484 " 15 }

485 Chrysoidein 25% Sol  
 486 Gum Dammar 3% } 80% "  
 487 " 8 } 63 "  
 488 " 12 } 53 "  
 489 Salicylic acid 3 } NG  
 490 " 8 } NG  
 491 " 12 } NG  
 492 Phthalic acid 3 } NG  
 493 " 8 } NG  
 494 " 12 } NG  
 495 " 2 } NG  
 496 Aniline Oil 4 } NG  
 497 " 6 } NG  
 498 Acetanilide 3 }  
 499 " 5 }  
 500 " 8 }  
 501 " 12 }  
 502 Acid Green GCX 3% 83% Sol  
 503 " 8 12% Sol  
 504 Alkali Blue BR 3%  
 505 " 8%  
 506 Parachloraniline 4%

507 Parachloraniline 10% Sol  
 508 Grafite 10% aq  
 509 Grafite 25% "  
 510 " 50% "  
 511 Chloride ammonium 86% Sol 9-  
 512 " 50% 5% 10-  
 513 " 37% 4% 8  
 514 " 21% 12 11  
 515 Paraphenylenediamine 3% w/w of water  
 516 Phthalic acid 5% 9-  
 517 " 8  
 518 Phthalic Acid 4% + Paraphenylenediamine 1%  
 519 Gum Dammar 5%  
 520 Parachloraniline 5% Paraphenylenediamine 2%  
 521 Resorcinol 4% acid  
 Paraphenylenediamine 2%  
 522 Rosolic acid 4% acid  
 Paraphenylenediamine 2%  
 523 Phthalic Acid 4% +  
 Paraphenylenediamine 2%  
 524 Alpha Naphthol 4%  
 Paraphenylenediamine 2%  
 525 Acetanilide 4% +  
 Paraphenylenediamine

526 Diphenylamine 4% &  
 Paraphenylenediamine 2%  
 527 Acetanilide Magnesia 4%  
 or P 2%  
 528 Hexachloroethan 4% &  
 P 2%  
 529 Selenic acid 4% &  
 P 2%  
 530 Sulfuric acid 3% &  
 P 2%  
 531 Acid value 40 N.S. low 3% &  
 P 2%  
 532a Bromo 4A 4% &  
 P 2%  
 533 Parachloroaniline chloride 4%  
 P 2% Some reaction  
 534 Vanillin 8 & 4% of  
 Records 1200 Cured soon  
 1800 Alcohol  
 36 Paraphenylenediamine  
 535 - 1200 Room 142° MP 29% precipitated  
 54 Pentol  
 48 Nap  
 95 64  
 1780 Decant

536 - 75% 297 of 70%  
 537 Equal parts "  
 538 Duple Damsel 5%  
 2% Paraphenylenediamine  
 539 100% of 70%  
 2% Paraphenylenediamine  
 540 5% Chloroacetic acid  
 2% Paraphenylenediamine  
 541 45% Carb. Disulfide  
 2% Paraphenylenediamine  
 542 Superheated Resin 1 hour  
 Req. Post- no Soln Phenol  
 543 ditto 2 hours  
 544 " 3 "  
 545 " 4 "  
 546 " 5 "  
 547 2% Paraphenylenediamine  
 5% Parachloroaniline  
 25% Extra Spiff



In catalogue of disc say music  
is best heard 10 or more ft from  
the machine, allowing for  
spread of the sound waves

Saw food photos of program  
of bridge

Where is contact with  
Jacques Urus

Wilson who looks after  
small Wilson Rectifier to  
see if properly arranged  
& Cost kept down

Richardson How about  
Murray Call - The German  
lamp that got the  
prize is being introduced

Hutch - How about Birch standard

Mount lamp back with good -  
plate Ag. the surface with  
for telephoto -

Get 2 vic records together -  
print our record on it  
test -

Moore - get mould & press  
graphite oil record

Did I patent the Goos on  
Dynamo of Ford with  
goosies closing when get  
Korlan speed a opening  
when speed too high

Learning at that job one  
man cut 200 bundles all  
groups & they get better  
persons saving daily

Limit CO<sub>2</sub> exhaust steam,  
from these & phospat into  
over heating by slow -

Stand with nos 2 & 3 Replac

Stand tone changes on  
Standard disc packs  
differencing weight.

Try Kieselguhr best  
for partially used  
units also Carb or  
+ other preps

Mould loss in weavers -

492 37 ~~shiloh~~ 12 Discs  
OK 6 - 2nd 3 diff imp  
3 Discards  
Wks fair 3 sticks -  
No teal

~~Schepic a~~  
491 - 12 Discs 1 OK 11 Discards  
doubt f Cois and all  
Wks fair sluggish -  
2 plates stuck  
Transf - 11 Discards all  
pull out -  
W9 No teal

382 49 plates 24 Discs 18 OK  
6 Discards peeled  
Wks good fine surface  
free scale all A  
Transf OK 18 Discards 6  
Crocked plates  
OK 48 Ovens fine few  
air blisters -

496 - 12 Discs 5 OK 2nd 1 peeled  
5 Discards peeled wks  
fair - 3 sticks to plates  
Surface streaked  
Amudgy -  
Not tested

495 12 discs 7 OK 2 1/2 shiloh  
1 2nd fine crack -  
4 Discards 2 peeled 2 checks  
Wks good - 4 sticks  
Amudgy -  
Transf OK 7 Discards 5, pull out  
Not tested

493 8 1/2 shiloh - 12 Discs OK 4  
2nd 1 fine crack 4 Discards  
Doubt f Cois and all -  
Wks fair - 3 sticks  
plates -  
Not tested

382-23 Discs ~~OK~~

1 2nd case report 14 Discs ~~OK~~

10 packed 4 Cracks

Not listed

all of these  
No inventory

383

490-12 Discs 5 OK 3 rub

1 left 2 Cracks 1 Crack

4 Discs on Bank of case

5 unavail - 100% OK

3 out of 10 OK

No OK

489-12 Discs 7 OK

1 2nd Cracked

2 Discs OK 2 Cracked

2 packed

3 0 Cracks to plate -

No OK

Mc Chesney of the  
Laboratory sent  
put them on box

Walter Miller

Milke Happy Days

was 3 of them

also containing 1 of them

384 Varnish double length tape

Mixing - 120 Plates 60 discs

500K 1 2nd Cracked

9 Discards (4 cracks) 2 prob. 2 left

Works very good good small

surface - few scratches

12 Records listed, with horn

30K = 25%

4 Run out 34%

3 Very slight run out

2 " not better } 42%

practically good surface

with horn - my cost makes me need

Harris

Transfers 500K 9 Discs Cracked

1 pull out

This is a sample to

judge the situation

485 12 Discs 8 OK 1 juv  
Cracked 3 Discs 2 pecked  
1 peck up in like gaps,  
up and surface free release  
5 Records 4 Run birds  
1 Run out surface band

Transf. 5 OK 2 & 3 pull out  
Discs 4 Cracked  
black from down (water spots)  
few not blisters -

509 12 Discs 10 OK 2 Discs  
1 left 1 crack 1 like very  
good fine surface  
free tick marks A1  
Transf. 5 OK 3 A  
1 OK out small white spot  
black from down (water spots)  
few in blisters  
5 Records  
1 slight RO  
3 Bad RO  
1 RO.

507 - 12 Discs 10 OK Discs 2  
small left edge  
Works very good, clean very  
some few raised spots  
but not soft free holes some

A1 -  
2 OK  
2 Slight Run out  
1 Run out.

Transf. 5 OK 2 & 3 pull out  
Discs 4 Cracked  
black from down (water spots)  
few not blisters -

506 - 12 Discs 10 OK 2 Discs  
1 Cracked 1 pecked 1 like good  
good surface free tick marks A1

2 OK  
3 Slight - Tick out  
few surface out so good  
Transf. 5 OK small white spot  
small surface out  
Discs 4 Cracked 2  
Discs - good 1 left up (15)

382-24 Discs 18 OK  
6 Discs ~~peeled~~  
lots good fine surface  
free blebs on A1.  
3 Very slight Run out  
2 Run out with lead  
Over took, fine free and  
blebs  
Plates 48 OK  
Transep. 18 OK  
6 Discs & Cracks

516-12 Discs-9 OK  
1 2nd (Concave OK left up)  
2 Discs, 1 left 1 cracked  
lots very good fine surface  
slightly slightly free  
scale on  
Transep OK 9 2nd 3.  
Shell with slight,  
Over cracks good

483-12 Discs 7 OK  
2 2nds (2 Cracks)  
3 Discs lots good fine  
surf free blebs

1 Run out  
3 OK transep surf max  
1 slight RO " "  
Transep 5 OK 2nd 3  
peel only Discs 5  
Cracked

510-12 Discs 9 OK  
2nd 2 left  
1 Discs = 1 peeled  
lots very good very good  
scale on fine blebs  
Transep OK 9  
2nd 2 peeled Discs  
1 Cracked  
Bubbles on all plates  
Over fine fine surf  
4 OK very good surface  
1 RO slight very good

Return wear level on these

505 - 12 Discs 10 OK

1 2<sup>nd</sup> fine cracks  
1 Discard (crack)  
Works excellent  
good surface free releases  
slightly cloudy A1

1 Very slight RO good surface  
2 OK not very good surface  
1 OK fair surface  
1 Bad RO -

511 - 12 Discs 10 OK

2 2<sup>nd</sup> cracks  
works good - good surface  
free releases A1

4 OK only fair surface  
1 Very bad RO

Plates Rough & Veag bad  
Transfer Heavy white surface  
Discards 1

Transfer Discards 1 Crack  
Deep scratches  
but ok surface 1

512 12 Discs 10 OK

2 2<sup>nd</sup> cracks  
works very good Excellent surface  
free releases slightly cloudy  
A1 -

5 OK but surface not  
as good as 384 Reg -  
no RO

504 - 12 Discs 11 OK

1 2<sup>nd</sup> small crack but OK  
works excellent fine surface  
slightly cloudy free  
releases A1

2 Run Outs  
3 OK surface like Reg  
Transfer OK N 1 white  
spot - no discards  
5 OK good few air bubbles  
plates few on C & B  
in all

Good

503 12 Discs 19 OK

2 2nd cracked near hole both

Count -

Looks Excellent good emb

free release no A 1

Some white spots shows

1 OK single

1 slight RO surf ground

3 OK surface ground

Transfer 10 2 white spots

Open fair few air bubbles

Plates all OK

514 12 Discs 11 OK 1 2nd

Light Cramp -

Looks Excellent. Excellent

surfaces - has a rusty

gray appearance heavy

free release A 1

5 OK good surface

nearly velvet

Transfer OK 11 2nd, sealed

Open - Very bad rough

plates heavy mottle surface 1 Disc

Shows Heavy Black Hatched  
Letter -

513 12 Discs 8 OK 1 2nd

small hole -

Discards 3 1 cracked 2

small holes -

Looks fair few surface

slightly spongy

free release. Very heavy

4 OK not velvet

1 slight RO not velvet

Transfer 7 OK 2 2nd

pull out Discards 1

Cracked 2 Dirt on

surface

Open - Very bad rough

plates Heavy mottle surface

1 Disc Recused



484 12 Discs 8 OK

1 2nd Cracked

3 Discs peeled -

lots very hard

fungus on surface  
free seeds no

3 OK almost

2 Run out

Transfer 8 OK

Discs 4 Cracked

Over few fine air bubbles

flats - Bad bubbles

in cell =

502-12 6 OK 4 Discs

3 Cracked 3 peeled -

free surfaces -

2 Very soft to no velost

1 OK

2 Run out

Over few air bubbles

482 12 Discs 7 OK

5 Discs 4 peeled 1 cracked

lots fine good seed -

sticks to plate -

4 OK only just OK yet  
not quite as good as

Red

1 Run out

Transfer 7 OK 1 2nd Cracked

4 Discs in pull out

Over 1 each fine few air bubbles

flats bad bubbles on all

Discs 4 Run out 2

481 12 Discs 7 OK 1 2nd

small hole - 4 Discs

peeled 1 pick up -

lots fine good surface

Brownish yellow - mottled

purple yellow white blue  
as much as seeds -

5 OK Very 1st best

Transfer 7 OK 4 cracked 1 2nd cracked  
plate would break for all 2nd  
Over looks good

480 not tested }  
479 " " } dec 1/2  
as tested 481 - }

With Benzol etc  
Get in of boonite

~~10 Chloroform~~ of Ammonia

~~the~~ Cellulose

Acetyl Cellulose  
anion

Try Carter 50 75 + Equal to  
Resin - or 1% Paraphenylenediamine

Try Quin Diamine acetyl  
2% Phenoxyethylamine

See if you can see if he can  
make some Chlorinated  
a delaminated to make  
Parachloroamine -

~~Graphite 100% with 1%  
Paraphenylenediamine~~

Try transferring by coating  
surface of Varnish - try  
Stearic acid, Camellia oil,  
Machine oil - at top peeling -

Moors about another, Edgway  
~~Machine~~

Chloroacetylamine Saluted  
which is 30% ~~amine~~  
put in 50% + 2% PPDmine -

Pass Dental plaster Prim  
through 20 mesh & cast on  
second graphite it & see  
how it looks -

~~with some other 11% resin~~

Ash & Kelly how to make  
Collord Metals work  
are about 70 marks  
Silver -

521 = 48 Plates 24 Discs  
~~24 OK~~ no ends or Discards

Par excellencia = Surface  
Excellent - ~~122~~ 122

12 Records Tested

5 OK fair surfaces

5 OK velvet

2 Run outs - Better

than regular for run outs

Transfers 24 OK no discards

Plates 48 OK 1 raised, discarded

Over - Very fine =

Surface running  
not so good as  
384 Reg

522 42 plates 21 Discs 19 OK

2 Discards 1 cracked 1 perfect.

Looks excellent = excellent surfaces -

122 release A1 - Transfer blank OK 19

Cracked 2 = Plates 42 - 2 raised

Cracked 2 Dust 1 - all discards

Over - good few small blemishes -

12 Records Tested

2 Run outs

1 " Bad

4 OK not nearly as good surfaces as Reg

2 Surface Run blank

3 Very slight run out

520- 48 Plates 24 discs 22 OK

1 2<sup>nd</sup> Cracked 1 Disc and pulled

Wks Excellent - Excellent surface

Transfers #1 = Transfers OK 21

Discs 2 (3 Cracked)

Plates 48 OK 1 Dust / Round balls

discards - Over very fine -

12 Records 8 OK very velvet

2 Slight Run out start only velvet

1 Very slight run out not velvet

1 " " Velvet

noticed Cutting one one

This noticed on other Pass clean

Make WEAR test

This is fine surface better

than Pasquely probably

best yet of these work load

slow that 50 Rev at

center band

So to NG - keep

went more 5/11

Dup with 25% more

6/4

519 24 plates 12 Discs

11 OK 1 Disc and Cracked

Wks Excellent - Excellent Surface

Free release #1

Transfers 9 OK 2 Disc and Cracked

1 2<sup>nd</sup> - Small Cracks

Plates some scratches on disc

24 - Discards 5 Cracked

Records 1 =

Other very good -

5 Records

3 OK Velvet

1 Run out

1 " " only at start

518 12 Discs 10 OK 1 2<sup>nd</sup> left up

1 Disc and didn't flow to outside

and - Wks good fine surface

Free release #1

Transfers OK 10 1 Disc and pulled

out 1 2<sup>nd</sup> light pull out

plates some scratches on disc

1 Disc and more over very good

2 OK Velvet 2 Records 1 slight Run out

523-47 plates 21 Discs  
15 OK Discards 6 - (3 left up)  
1 peeled 2 Cracked  
Wks ground - ground surface  
Base yellow, slightly  
sandy

12 Records

7 OK 5 slight run out  
surface, fairly velvet  
Transfer OK 14 Discards 6  
Cracked 1 Out surface  
Plates 42 OK 4 Discards, round  
Over look, very good 2 left up!

524-46-21 OK 13 Discards 10  
8 Van peeled 2 cracked  
Wks ground - ground and slightly  
sandy Discards not all  
due to Varnish -  
Transfer OK 12 Discards 3  
Cracked 1 Over very good  
Plates 46 OK Discards 2  
sub 66  
7 Records 3 OK not velvet  
3 Run out  
1 OK cuts

415-96 plates 46 Discs  
31 OK Discards 17 (15 peeled  
2 cracked - Discards not all  
due to Varnish - Wks  
ground ground surface

12 Records

Transfer 26 OK 21 Discards  
Cracked 1 2nd pull out  
Over - looks very good  
Plates 96 - Discards 3 Out  
Rough 5 -  
12 Records 7 OK velvet  
2 Very slight run out  
3 OK not velvet

527-47-21 Discs 16 OK 5 Discards  
2 peeled 3 cracked - looks good  
sandy - dark red, yellow  
brock of low luminosity  
free section  
2 OK 16 Run out, rough  
surface

440 96 plates 48 Disc 48 OK  
1 2nd 4 Discards 2 cracked 2 Covered  
Wks excellent - Except amber  
free recesses A -  
Transfer 38 OK 10 Discards  
Cracked

Plates few holes on all plates  
2 Discards 2 Disc 1 Remains  
10 good plates  
Oven very good some plain  
have no blisters

12 Records 4 OK velvet  
3 OK velvet on stand ok after use  
2 Run out  
3 Very slight run out

525 48 24 Disc 15 OK  
8 Discards 6 cracked 2 Cracked  
Wks fair slightly muddy  
free recesses -  
3 OK record  
3 Run out

W.P.

Fry 72 by Hoyer grafted wax  
in Copper surface -

Take apart 3 A4 cells I now  
have soaked 4 get 26 plates  
+ soak 2 of them in highly  
Conc Cobalt solution, dry  
No chlorides. Then dry &  
precipitate with 5% HCl.  
Wash & put back in tank

Don't take another vacuum  
try to mix cooking oil  
if other <sup>oil</sup> of ok after  
10 days more than see  
how it covers

Hoffmann Temp 920  
but 25% more 6/4 -  
50 plates -

Work much longer water on  
Silver Cell and grafted wax  
must

Run when deal on 521  
4490 —

~~Send Home PR to Ford~~

~~Send to House full list  
Council records check  
Ernie keep address up  
to date~~

528-48 plates 24 Discs  
20 OK 1 2nd left up  
Discards 3 Cracks  
looks very good - piece sealant  
A1-

Transfers 19 OK Cracked 3

Dirt on surface 1-

1 2nd digit pull out

Plates OK 48 2 Discs raised

3000 - Very good -

12 Records —

2 Slight run out not quite velvet

2 Very slight run out velvet

5 OK velvet

2 Run out - 1 fairly good -

pretty good Varnish - my coat is  
better a surface is hard

plaster probably less  
Varnish is OK for surface  
as compared to follow

530 44 - 28 discs 18 OK

2 rods (check Comet)

Discards 3 (left up)

Wks OK very good, slightly smudgy  
Some fine red spots, free release

A1

Transfer 18 OK Discards 3

Comet - 2 rods kept pulled up

Plates some bubbles on all

plates Discards 4 raised -

Open quad few in blister

1 Run out rough

1 Bad run out rough

2 Slight run out rough

1 OK velvet

3 OK rough -

Bad lot = NG

529-48-24 discs 18 OK

1/2 lift up - 5 Discards 1 peeled

4 Cracks

Wks good slightly smudgy

free release Cracks on side

Transfer 14 OK 7 Discards

Cracks 3 rods pull out

Open - very good -

Plates 4 OK -

3 OK family velvet

2 Bad Run out

4 slight " family velvet

1 OK rough



531

36-plates 18 Discs 17 OK

Discards 1 pecked

Looks excellent free exchange

A1 - Transf. OK 17

Discards 1 Cracked

Plates some bulges on all

Discards raised 6 -

Open quad peck few air blisters

3 Slight run out Rough -

2 Run out Rough

2 OK rough -

685 print so far on this

would perhaps falling

rough -

Max Aircraft

See How many

operates you

can get

532-42 21 discs 18 OK

1 2nd check -

2 Discards Copied

Looks very good - free exchange

A1

Transf. 17 OK Discards 3

Cracked 2nd 1 pull out

Plates 4 OK Discards raised 4

Open quad few air blisters -

1 Slight run out rough

2 " family velvet

5 OK family velvet

1 OK rough

1 Run out rough

1 Run out good -

Dobby = 1/2% on Candelabra  
+ taking up pressing  
process - warm at plastic  
point -

Have ~~two~~ <sup>18</sup> more cells, take  
apart - 2 treat with  
saturated  $\text{NiCl}_2$  + 2  
with sat.  $\text{NiCl}_2$  with some  
free  $\text{HCl}$  -  
2 with saturated  $\text{NiSO}_4$   
2 + wood

Woods - put in 1/2  
adv. ~~nickel~~ <sup>nickel</sup> or  
we get 20 a day

Askegard Ept  
state of foreign  
Kinchelton plants  
Synchrotron & load  
210

Get some ~~Nickel~~ <sup>Wax</sup>

Barbary Wax  
Chrysac

Symmetri

Ext. general procedure wax.

Purify talcacht Kap get rid of  
acc. of fibra man get very good

Hoffman - Make some

3% Paraphenylenediamine

4% "

5% "

Pour on plates on ground  
as made before at Com. set

also 4% Para 3% Paraphenylenediamine

4

5

538-23 Discs 20 OK

Discards 3 (Cracked 2 feared)

Wks 2000 good, 2000 good, 2000 good

A1 - Transfer OK 19

Discards 11 checked

Plates 8/4/46 - Discards

dist 2 passed -

Over 1000 good, 1000 good

20 Knot rest

7 OK 1 left

2 Run out not rest

1 Slight Run out not rest

540-24 Discs 21 OK

2 2nd 2 checked 1 good

1 Discard checked

Wks fine - slightly sunny

free scale on A1

Transfer 19 OK 3 Discards

Crack, 2 2nd left piece

Over - not good packed

Plates 48 OK 2 Discards bubbles

1 Run out fine

1 Run out fine

6 OK 1 left

2 slight Run out not rest

2 Run out not rest

Thinking  
transfer  
transfer  
transfer

541-23 Discs 14 OK

1 2nd left up -

8 Discards 5 passed 3 small cracks

Wks good - slightly sunny

free scale on A1

Transfer -

Transfer OK 12 Discards

10 Cracked 1 2nd full scale

Over Packed

Plates - heavy matter surface

46 out Run pass 2 left over

Horrible surface Ng

Prison - where is all the  
ice used in shipment?

Business of Court got stuck  
in this country get  
it abroad -

Silver Monochloroacetyl  
faintly scaly - Displacement  
at 110 Cent - set but water

5. ~~Silver~~ ~~displacement~~  
scaly ~~but~~ ~~set~~ ~~water~~

Send Ford refs show  
he makes noise -  
has school ~~with~~ ~~it~~ ~~the~~ ~~11~~ ~~100~~ ~~and~~  
10 pics -

Use Cabell's sol plate:  
6000 apold reagent will  
cleaned a large Cabell  
1 amp hour or less  
then immerse in Copal  
Sculpin ~~thin~~ ~~film~~  
pour melted Copal Refin  
to shell then ~~use~~  
detached silver seal  
in water or plate on  
shell ~~refin~~

~~Christiana - Fast some~~  
~~1/4 & also 1/2 thick -~~  
~~Cool natural with cover~~  
~~on also still quick~~

~~Had all the Copal~~  
~~in the bagged~~  
~~work~~

~~This given ~~to~~ ~~the~~ ~~film~~~~

~~got some electrical lead~~  
~~used among electrical~~  
~~to mix -~~

~~Try Oxide Wax~~  
~~also ~~two~~ -~~

got old waste flow  
Residual 4% ~~Plate~~ ~~for~~  
paraphrasing the 100 ~~cc~~  
sol can strip 6553

Try Keene Cement & try  
200 mesh - for disc

Wilson - at proper time  
take slices to wind up  
the North Phoenix in England  
Aluminum Sulfate

Batch -  
See about exact working  
times &  $\frac{1}{2}$  packed  
to get uniform Res  
already

Got that fireable need  
it's made, melt a  
drop water in it -  
or pour on needles

~~Try all - Use 100 to  
1000 mesh & with cream disc  
in Benzol - put the powder in  
disc & press it on 1000 mesh  
heavy pressure -  
I would make the Cream  
Benzol mix -~~

Test surfaces on smallest  
part of a quadrator  
records on one inch

Glacial process with  
Aluminum Sulfate  
thick, then mix 200  
to consistency of putty  
working in 2 mesh

~~Sovels Cement  
ZnO half lb. bulk  
with ZnO 1.200 g. of  
Oxide quinine -~~

~~Dry ball of quinine worked  
by heating in hot water  
at press of foot. Cakes  
of MnO<sub>2</sub> - it will  
be full weight of hot  
it has been also -~~

~~Get some gum chicle~~

~~Send special mess  
with nice receptacles for  
Forks M. M. also  
H.P.K. -~~

~~Daily reports of lab  
would be OK for repair  
+ Doubtful + Regretful~~

~~Ship to Toxi / a 250 disc  
Kendall + lot of records  
all so far -~~

~~Barry Reed makes  
up~~

~~Stevens / did Whigo  
get my shirt ready~~

~~Amalgam is a mixed  
then pour into wax  
see if it dont come off  
Sodium Amalgam~~

Pour over master. 150 cc of  
Very thick Parla. Vacuum well.  
10% Paraphenylenediamine  
heat slowly, in oven until  
Condensed - strip & good  
plate.

Put wax spread on blank  
turned flat lay over  
Washed & put in oven  
& bring it to boiling  
point & let it sink  
down a little, then  
Cool.

Make very thin solution  
Chances good oil in  
suspension etc flow over  
Master & get all off  
Can let it dry in oven  
then Cast wax record  
it will not stick I  
think

546 48 24 disc 16 OK  
& discont. 5 peeled 3 cracked  
Wks good - very good surf  
free & clean  
Transfer 11 OK 13 cracked  
Plates 48 OK 3 disc much  
Not local

545- 48 24 disc. 9 OK  
15 discont. 6 peeled &  
cracked - white part  
fair surf free & clean  
Transfer 9 OK 15 discont  
Cracked  
Plates 48 OK Then -  
spots don't print well  
Over very good -

544-45 24 Dec. 20 OK  
1 2nd Canal Dry ~~ends 3~~  
1 Crack 2 pebbles  
Wks very good Excellent  
surface ~~very good~~  
Transfer 15 OK - 2nd  
1 white spk 1 light pull  
out, 2 small cracks  
Plate 48 OK over-very good

543-24 Dec. 15 OK  
6 Dec. do 11 pebbles 2 cracks  
Wks good very good surface  
force sealant -  
Transfer 15 OK 6 Dec. cracks  
Over good  
Plate 48 OK

542-24 Dec 20 OK Dec. cond  
4 - 2 pebbles 2 cracks  
Wks good very good surface  
1 sheet to go  
Transfer 15 OK Dec. cond  
Cracks - 2nd clipped away  
Wks -  
Plate 48 OK - Over looks  
very good

2 sets of ~~plates~~ ~~plates~~  
& Argentine

Daily - Use 2 to 1 1 part cellulose  
on base no sticking against and  
bring up to 3rd or 4th  
The Repair will cause it to  
stick 4 thumb

See results of 521 test.



~~Walt Co AH + 12 also organized  
60 AH not work it~~

~~Smith last Res at  
100 camp on AH -  
walked + not to school~~

~~also with 2 KOB 2  
d or 25 KOB 2 L. H. A.~~

~~also 2 M. O. H.~~

~~Moore Tony the wax on  
in an...  
also low door...  
also... Tony...~~

~~L. W. O. L. L. has a cap  
Hurry man come  
over~~

~~See how much work  
Christmas gets~~

~~also in Picnic  
Room~~

~~Send Ford 100 m  
S. B. R. L. C. H.~~

~~William... wash  
calling...  
get out of town~~

~~Where about  
Talking Pic Capt  
underland~~

551 = 24 20ok 2 2<sup>1/2</sup> lifting Count  
1 crack - 2 Discamp Cracks  
Wks fine - excellent surf -  
free incline -  
Transfer OK 19 Discamp 4  
Cracked 1 dirt on peak  
Plates 48ok 1 Rains 1 bubble  
Oven - good -  
3 Rough chips RO / moved from 878  
1 Rough chip <sup>Time too rough to</sup>  
<sub>was as thick</sub>  
didn't run the other 8 -

553-24-17 OK 3 2<sup>1/2</sup> 1 peck  
1 check 1 lift, Discamp 4  
1 lift up 3 cracks -  
with good - up slightly secondary  
Transfer OK 18  
Discamp 4 2<sup>1/2</sup> with crack  
around requiring 1 use blades  
Plates OK 50.  
Oven good -  
Moulded low rough  
must reposition and  
another record

## Varnishes Continued

548- 3/8 Paraphenylenediamine  
only

549- 4% " "  
550 5 " "  
551- 4 parts 3% " "  
552 4 " 4% " "  
553 4 " 5% " "  
554 4 " 2% American "

~~Wilson - don't forget  
over to Cyclops Beach  
slaying my off -~~

~~See about film in paper  
boxes & wooden frames  
not paginated.~~

554

48 - 24 discs 18 OK  
1 2nd 5 discards  
Cracked wks good  
free release slightly  
Sunday  
Transfer 15 OK  
8 Discards Cracked  
1 2nd layer pull out  
Plates 48 OK  
Cover good  
1 OK little rough  
1 Slight RO good  
2 OK good  
1 Recount good  
1 OK Cont.

521. Run thru sanitation  
as 554 -

46 plates 23 discs 20 OK  
3 discards 1 cracked  
2 small cracks  
Wks very good Excellent  
surface free release  
slightly Sunday  
Trchs OK 76 - Discards 6  
Cracked wks blue 1  
Cover good  
Plates 46 OK 2 discards  
rains -

2 OK fair surface  
4 Run thru little rough  
one of them cut on  
small part -

~~Walter Miller~~

~~We want some things crushed  
in 1/2 inch or even 5/8 to  
widths (plates crushed)  
on edges. When all done is  
about don't put it all on  
the edge. Every about one  
should be put in per 5/8  
has not about every 5/8  
Record~~

~~Gold plate & shell~~

~~Washed shell 1/4~~

~~Copper & iron shavings~~

~~Impression with nit~~

~~test forms (framed)~~

~~Mudstone~~

~~British - 5 plates on Eqy.  
see colored work -~~

~~355 = 24 hours~~

~~6 plates 3 discs~~

~~2 ok & Central 2nd~~

~~Very shiny~~

~~2 ok from surface~~

~~555 48 hours~~

~~2 ok surface~~

~~about same as~~

~~24 hours~~


~~555 96 hours~~

~~2 ok~~

~~surface better~~

~~than 24 or 48~~

555 = 120 hours  
Very much better surface  
than 24 hrs + even  
96 hours best both  
plates stick to blank  
Evidently  $4 \times 10^6$  Paulas  
 $2 \times 10^6$  Amey Paulas  
if 555 is it - is best  
after keeping in vac.  
for 3 days or 4 days

Get up all equipment  
for plating  
V.C. Rec. on new  
medium  
Also Volume <sup>Ball</sup>  
Adjusts 

~~White film~~  
Sheet Cellulose  
 $20 \times 10$  disc X  $50 \frac{1}{2}$  long  
4 discs 10% of sheet  
 $1 \frac{3}{4}$  lbs, weight of  
8 discs  $1 \frac{1}{4}$  lbs -  
 $\frac{1}{2}$  lb sample per sheet

Get up disc  
turning off reach  
for Cellulose  
discs with  
Drum and  
ball above

~~Clerk for Schumler  
all hours for a  
week to take notes~~

~~Necessary to buy  
water data  
My Edison  
notes -~~

~~Take up final testing  
of new things. (10)  
hours etc~~

~~Use a working mould  
described as an anode  
after World Cleaning  
to see about holes  
rotate it, Reg way~~

~~Try (1) Cellulose Sub  
in Reg melting bath  
with Ni ~~plate~~ plating  
to see how thick can  
get before peeling  
these make 2 or 3  
panels with  
Copper -~~

~~Tell Harcho man  
Schumler K with free  
K - get out too  
hydro-sopes~~

Starting Monday repeat  
records of all Cellulose  
Moulds Number of  
Records before taking  
off -

Find industrial marsh 4  
134000.

Backum -

Number of warts

3 more besides

the 2 Orphan

Goldstein got good  
Sensitiser last for  
Tandulum it may be good  
our iron in battery

New Records Corner  
Collection

Old Silver 1301 - Because you  
are you -

Started right off at 4 amp  
Slow Speed.

100° of big Conchides NG  
2nd print came

Got 1/8 cellulose - used by  
Luko for making & clamp  
holder - it kept flat  
ok it comes darkly print  
but print it through also  
2nd row on to holding it  
fine surface |||||

66 + 92 Cellulose Dimer  
surface only has no swags  
except what is due to  
Dry and water mixed -  
Brush used -  
Consider it pretty good  
as swags are absent



Bas - Jones Hartford  
change buttons also  
do they want all  
carb. off a change  
COP. these decided  
to also take  
tell Jones when he gets out of his cell  
of John Nelson a small cell  
and a new lot.

Goldstein Make 25  
lbs 3 Crystals  
of Sulphur from  
Sulphur like hydrogen  
8% Cobalt Sulphate in  
crystals of sulphur  
Miller to write &  
reduce for test

ditto 25 lbs with  
2.5% make 5 at 10  
it =

Goldstein take some  
of from button C &  
test for sulphur #6 etc

Dunwoody perhaps  
we put 5 lbs on too thick  
 $\frac{1}{2}$  thick  $\frac{1}{4}$  thick try

Dunwoody try 2 grafted  
Sub Cellulose & lead  
silver glass

Has Lewis Miller paid  
for his phone records

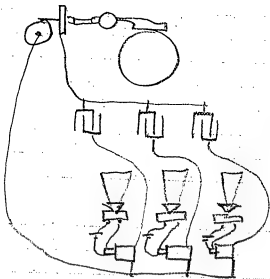
Moore if Condants gets  
on Miller records with  
not on water records  
this get structured

~~fundamental for  
Acetyl Cellulose  
which has absolutely  
no solvent action on  
nitrocellulose to patch  
or fix spots -~~

~~Backings 3/16  
tube having hp~~

~~Try Expts with  
thicker cloth  
on grill to reflect  
& reduce sparks  
also use ball~~

~~Demanded why not  
use Freon 114 in ad  
to keep ball & oxides  
dissolved~~



Ask Badesco to see telephon  
if they have hydro sulphite or  
whether they can get ricinus  
Oil to Revalerio, etc. —

See Rehr's place for pulling  
in Diamond see sulphur  
if we can't get rid of burning

Look up the Transp. vehicle  
gives least damage. Think  
it was Paraphlorandrium  
+ try this instead of  
Pentax or put in the  
Paraphlorandrium  
also try Pentax the P. S. S. S.  
+ hair dye

517 Records to go on  
at 20 amp readily  
in vertical +  
517 in brush bath  
at 10 amp

Walter Miles Make up  
a 2<sup>nd</sup> happy days

Found ~~Walter Miles~~ perfect  
Melody ~~see~~ author  
May 2

Wilson - we show all the  
Doc's graf gave +  
if we are sure they  
pay 3/4 of cost

fund out cost  
hydro sulphite

When Quills seeds  
over land 7/2's plater  
from battery, weeding  
with Brownie -  
Hops - + find out  
why 130 gives the  
metal unattached  
near hole. Let heat it.

~~554- 521 2 1/2% more~~

~~Alcohol~~

~~562 521 2 1/2% plus alcohol~~

~~563 521 5%~~

~~564 384 2 1/2%~~

~~565 Dimer off stuff~~

559 - 2% Paraphenylenediamine  
5 Parath

560 3 1/2% Paraphenylenediamine  
5% Parath

561 3% PPD -  
Parath -

557. Reg 521 with 5%  
water alcohol to  
NG only get 50%  
good product  
with 2 1/2% water  
Alcohol only  
get 54% good -  
Wants to be as thick  
as possible - then  
in good case -

Small pump 3" dia 3/4" wide  
 at 1800 Rev runs 3 jets 3/64  
 dia hole at 6@y lbs pressure  
 When jets stop pressure  
 not raised appreciably  
 When 3/16 hole jet is opened  
 pressure is 2 3/4 lbs  
 Same pump at 2800 Rev  
 runs 3 jets at 1 1/4 lbs  
 3 jets do about take 50  
 gal/hour flow.

Very good  
 Test 561 - 48 plates  
 24 discs 20 OK  
 2 2nds left up -  
 2 Discards 1 cracked 1 peel  
 looks very good, very good  
 Surface 2 stick to plate  
 A-1 83.3% flow  
 12 Discards  
 1 OK very slight remain  
 for about 5 sec  
 Plate 48 OK 1 disc 1 Discard

Transfer  
 7 OK Discards  
 6 OK 2nd 1  
 Cracked at hole ✓

560 - 48 plates 24 discs  
 19 OK second 1 left up  
 Discards 4 - (3 left up 1  
 peels) very very good  
 very good surface  
 1 stick to plate A-1  
 80% Blank 16 OK  
 Discard 3 Cracked  
 2nd 5 left out -  
 8 OK  
 2 very slight remain  
 2 OK little Cracked  
 plates no discard

559 - 48 plates 24 discs  
 20 OK 4 Discards  
 2 left 2 peels looks very  
 good, very good surface  
 3 stick to plates  
 A1  
 7 OK  
 3 Washers RD  
 1 long flow  
 1 Cracked

563 - (521 with 5% less alcohol)

48 plates 24 discs 17 OK  
1 sealed 2nd - 6 platters  
3 Cracked 3 sealed  
W/ho good good surface  
free seal some amending  
Label on 1 lifted up  
When need for label  
Red tape not black  
Like 579 600-61-

Transfer blades 14 OK  
10 discarded  
Plate 48 OK 2 raised -

OK. Vial 9  
Run out 3, only little.

looks like  
flowing &

562 - (521 2 1/2% less alcohol)

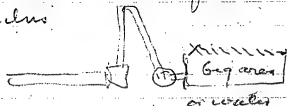
OK 15 2nd 3 1 left 2 Crat  
Discards 6 2 seal 4 Crat  
who fair good surface  
free release Sunday  
Plate 48 OK 2 left 1 OK  
Transfer 17 OK Discards 10  
Cracked surface 2nd 1  
Cracked in decaying

OK 5  
Slight Run out 3  
Big Crat 1  
Run out 2  
Bad Run out 1

something in  
drying

Dry Acetone  
 Carbon Tetrachloride  
 all the Chlorinated  
 stuffs from Germany  
 as substitutes for Phenol Resin  
 + all the cheap acetone  
 Solvents oil -  
 Turpentine etc  
 to see if better than  
 present -  
 Mollin solvents, hot plates, flow

Mason - dust from  
 Kilns



~~384 Resolat~~

~~OK not except rough # 2  
 Slight Run out 3  
 Off Vahst 6  
 Run out 1~~

~~Kush of flow total~~

~~Mrs Mitchell Fair  
 Emma Morgan "  
 Atkinson NG  
 Coral Oil NG  
 Edna Thompson Good  
 Remond Fair  
 1206 left good but jerk too much  
 when starting -~~

566 Paraphenylenediamine 4%  
Putta 8%

567 - Paraphenylenediamine 6%  
Putta 12%

Jack Rose visit Scheldy  
on the coast - U.S. man  
Wm permanent put  
Scheldy -

See if acetoacetylurea  
does or resembles any  
of the Cellulose derivatives  
andly blackman -

566 + 567 no more  
than 46% discards  
left up & sealed on 566  
usually - run out -  
72% discards on 567

~~Branch & better spreading disc~~

~~Wm. d. Cond. Times~~

~~Glass disc for Press man~~

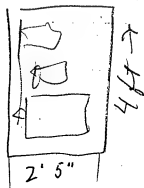
~~Get gutter percha tires  
for to date, no check -~~

~~Putta percha  500 wraps  
per disc 1.35 grams~~

~~330 to the pound~~

~~750 lb - 2 1/2 mls per disc  
350 - about 1 Cent "~~





Ask Kampaloff if he  
 has had tube tests  
 at sampler he brat  
 up new pieces  
 ni

Nickel 50% more than  
 now print 5 -  
 then polish & print 5 -  
 polish again & print  
 5 or so on

also Spring with point of  
 wood with Range or  
 Ivory with ~~range~~ range  
 & try various Ept. G

dillo plate Reg ni -  
~~plate~~ twice as much  
 & polish well -

Christensen -

Strong Formaldehyde  
 in Reg cell 21%  
 to be suspended  
 Warm for 3 days -  
 then Wash out -

Reproduces a subm  
Celluloid at 100  
110 & 125 to soften  
the surface before  
plating

Wurth about  
dipping in ~~fluid~~  
Wurth ~~celluloid~~  
Celluloid record  
also running after  
pressure to ~~subm~~

Try polymer like  
would ditto rejects  
with brush used  
in graphite  
10 to 20 minutes  
4 microns gold

Wurth ~~loading in~~  
Repair ~~cup~~ 3 or 4  
sitting down etc

8 Microscopes -  
quartz -

Two whips that make  
pena by pulling the  
phenol in Coal Introduction

Phenol from powder  
put in water +  
boil then all  
what comes out  
in water &  
test for (varnish)

~~Dalry Asphalt,  
Resin  
Resin  
Wood pulp  
Paraffin water~~

~~Hehr change over  
Drying of 10% will  
have an explosion -~~

~~Sec of 20% phenol  
will condense without  
6/4 -~~

~~Sec of 6/4 will  
Condense 20% phenol  
without 6/4 -~~

~~Sec of prepared Resin  
Pine sawdust will  
free to powder blank~~

~~Sec of knocking face  
of 20% on transfer  
blanks with 10% in  
H<sub>2</sub>O or alcohol would  
make it adhere to  
blank better especially  
at edges + center~~

~~Try 20% phenol  
on transfer - 1 scaled  
2 thick~~

~~Make 10% gutted on  
new drier rollers~~

~~Residue P.C. sec of Balata  
fair cheap order  
5 lbs 75¢ gutter double  
Wish it was 1/2 sec samples  
Possibly Albin will answer  
Ruled out~~

~~Sprinkle cyanide in  
Cellulose - use more  
Wash some paper to  
let burr see possibly  
water on surface  
to prevent explosion  
by operation. R.C.P.W.~~

~~See John Goldstein  
docs for PBCs &  
arrange it~~

Get air pipe over to  
Dumbar place

Overtone Ultrasonic  
Roller - don't sound  
like 7 passes - pply  
wants 2 parts →  
1 exclusive - listen  
to original Piano

Dope for Cellulose Disc <sup>now used</sup> <sup>Dip</sup>

1/2 inch in jar of  
Copper daps, 1/5 more of  
acetalde amyl. + mix well.  
then add 7 1/2 inches  
absoluted at in 3  
portions mixing well  
each time - filter 3 thick  
Washed linen - then feed  
in bottle 2 times -

~~Flow your Wash Process  
on 1/2 Silver plate  
also several plates  
11" dia with run. temp~~

~~1/8 P~~  
~~dry~~

~~Separate plates across  
Ruled dept. for coll. and  
give 1/2 inch marks  
findings from~~

~~with 1/2 inch of paper  
d. of edges of measuring  
penetration of a needle  
with a brush  
Ask your Sahlenscope~~

~~Disk Dept 165 Employees  
Payroll \$1522.30  
Week - 1 day out~~

~~Try blowing plates  
+ dry in vacuum  
Dryer -~~

~~When Maximal  
about 1/2 inch long lot  
Kendall in Pic~~

~~Jones when brown  
down  
4% of weight from out  
5 diff. panels p~~

~~Must be in good state  
but out of the dryer~~

~~Best out 5 sheets  
1 thickness each~~

40 Moulds 15% for recording  
#16320, 20 minutes.

	Cost
1000 Moulds	24.3
1500	16.1
2000	12.15
3000	8.10
4000	6.00
5000	4.86
6000	4.00
7000	3.47
8000	3.00
9000	2.170
10000	2.140

Moss - all ~~filled~~  
small pieces 12  
them will print as  
submuses

Christmas / try regenerating  
a ~~reference~~ cell. nearby  
ephemeral ~~cell~~ (2) Zinc  
pore by electrode the Zn  
has Sulphur Sulphide with  
amount of acid if it will  
act again -

Bismuth deposits with  
Copper do become  
possibly this will  
harder Copper -  
d

Make dish for the celluloid disc  
then pour on acid as any for a above  
or both just cover on a dish  
till dissolved then open & dry

See how much cotton line  
Can be used in transfer  
Varnish with little extra  
blackish shell lac

Coat a repeat but usually  
by using velvet brushes  
not hard to get it warm

Hold a capillary repeat  
in a coil in a hot oven  
Vapors of Sulphur  
to Sulphuric acid



Take up matter of Porcelain  
plating balls also  
glass moulded

Radman about Berlin  
house - history -

~~Caranet~~

~~Aluminum~~

Salalin

Sga acid

Sodium

Glucose

Citric acid

Tartaric acid

Alum

~~Alum~~

Sulphuric acid

Sulphuric acid

Polysaccharide Cu

Iron, Sulfuric acid

Chloralhydrate,

Resonance -

~~Pick out best Dine for  
Australia  
Argentina~~

~~Magnesium work for Uralia -~~

~~California~~

~~Indigo in 10/504~~

~~Melodius acid - also oxide~~

~~Phlogoson~~

~~Gum arabic - Ravenna~~

~~Resin~~

~~Amphic acid~~

~~Gum~~

~~Albumin~~

~~Albumin~~

~~Congo Red~~

~~Powder Blue~~

~~Examine a few Goodwin  
last returned records~~



~~Melodius -~~

~~Why don't Stads~~

~~Come up + sing~~

~~Phosphate -~~



~~Pick out <sup>discs</sup> for  
Stroals & Kinkadee~~

~~Stroals want a copy photo plate~~

~~Pick out Discs for Anselmi & Argenti~~

~~Magnesium wire for vesicle~~

~~Examine when some of them last  
winter~~

~~Take up matter of porcelain bath~~

~~Constructing by Albert or Cherman Kid  
Wesley photo~~

~~Christmas~~

~~Woods small present to woman~~

~~Mending broken or press 2 or 3 at  
once~~

~~Remind them to keep a new book  
how about Waukesha or Waukegan~~

~~sep. letter, make road dip &  
store cell phone~~

~~See if directing files of Vermont  
slps. photo with photo 35% credit cards  
otherwise OK~~

~~Woods, detail of vesicles appears order~~

~~Was going to get more pack by  
putting in mail box now -  
How about get back now~~

~~Smith had of thing along  
regarding~~

~~Order 10 Woods Micros~~

~~New order for cellulose  
discs~~

~~Mudd got sacks to get hand for  
Year till May 1 - get sent elec to  
get hand for 5 off will do~~

Free gift flat Pava rubber  
sad for ~~gift~~ - ~~ideas~~  
~~celebrate~~ ~~ground~~.

Send for ~~Bath~~ ~~stock~~

Get model ~~box~~ B2 Ford

Order ~~from~~ ~~Collector~~

Hangy up ~~with~~ ~~pattern~~

Plating table - ~~add~~ ~~etc~~ on

Place all the new stuff  
+ chap for ~~material~~

See ~~Bardwin~~ about model  
box for Ford -

See ~~Mund~~ about Money  
+ PRR payments -

See if ~~Calvin~~ home  
if JPM home  
Perkins or  
Monah "

See ~~Bardwin~~ see ~~man~~  
may call ~~also~~ ~~Wilson~~ -  
Burgess

Get ~~can~~ use  
Reg ~~to~~ use all ~~make~~  
for ~~obj~~ P.C.

~~Stew Stevens  
" Thomas Place  
New Rochelle  
NY~~

~~Jones~~

~~He can't sell the  
Cylinder 13 and  
11 port ~~and~~ grade~~

~~at Midd. how he  
keeps can you see  
on road how he about  
300 m. ~~how~~ how~~

~~for Lu baths -~~

~~Acetic Acid  
Rosolic acid  
Ammonium Sulphate  
Sulphate Zinc  
Cadmium  
Magnesium  
Manganese  
Sulphur  
Sodium  
Potassium  
Lithium -~~

~~Urea  
Alcohol - Et. methyl  
Acetone  
Phenol  
Cyanol  
of formaldehyde  
Phosphate K Na Li~~

~~Listen to Stevens Records~~

~~Keep all other Zinc  
Records & markings~~

~~Try sewed belts on Meace~~

~~See Lulu about the 6  
#62~~

~~Put belts of various  
numbers of 1 - see Lulu~~

~~See Simon for concealed~~

~~Dally about moving  
shell etc place~~

~~Keep at home till  
Darius returns~~

~~Ample New Paper  
1/2 #3 -~~

~~Drumlin look up  
diamond resource  
white material -~~

~~Drumlin goes  
last up Colloid~~

~~Miller about L. this  
Cost -~~

~~Harry get paper from  
Simon and the tangle in  
it~~

~~Bench /  
Consign~~

~~Smith how getting on or  
succeeding in neg -~~

~~Guthrie /  
Nicols~~

~~Mehr why is 3~~

~~air Compress~~

~~running & pow -~~

~~Woods -~~

~~Revised hypothesis 4 to 1 does not  
grafted - Prelim cont should be -  
fine OK!~~

~~Fraumeni 5 to 1 grafted -  
fair but surface not near  
as perfect as 4 to 1 S B + 2 1/2 -~~

~~5 to 1 not grafted - not so  
good as 4 to 1 - S B + 2 1/2 -~~

~~5 to 1 not grafted~~

~~See what of ders was  
have for cytochem~~

~~Research -~~

## Bismuth Notes S Battery

Perhaps Bi will call want great excess of iron or a separator to keep Hydrogen away from the tube and plates may react catalytically which is a bad reaction.

Work up ~~Extra~~ ~~series~~  
Kendrophane for  
Movicis -

---

Submaster Notes -

1 = Dalley - ZnO + thick film dops  
discs

2 = Very thick Cardamom Varnish  
10% Paraphenylenediamine  
H<sub>2</sub>O<sub>2</sub> + mix with thick  
film dops harder at  
low temp to get flat disc  
disc - Don't mix.

3 - Polymerization of Pinene  
Copolymer, Mittle Rosin products  
Acheson codes Insol in alkaline  
See file am chem soc 28 1461  
original paper given to 8th  
International Congress Applied  
Chemistry by Frankforter, et  
al. Paper = July Number 10<sup>th</sup> Abstract

Artificial Resin a Review  
by Bottles in the Kunststoffe  
3-849 130-4

Acetylene (bromochloride)  
Solvent Acetyl Cellulose

Calcium Chloride & Ethyl Alcohol  
good solvent of Cellulose

Phenol Acetic acid is the only  
fluid that dissolves  
Glycerin Glycerin Cassin -

Acetic is miscible in all proportions  
in alkaline Chloroform Amyl acetate  
Amyl oil & Cassin

A solution Cellulose Nitrate  
& the salts will stand a lot  
of work. Can be followed  
a little acetyl chloride  
increases solvent power

Acetylene Tetrachloride Best  
Solvent Acetyl Cellulose  
It also dissolves Dama  
Shellac - Elmi Sandal  
the softer Copals Camphor  
Naphthalene - Miscible with  
alcohol amyl alcohol  
+ Carbon Tetrachloride

Phenyl Acetate ditto as  
Acetylene Tetrachloride -

Getsome heavy Alcohols  
Oils - Salicylates -

Acetoacetic in Acetylene  
tetrachloride with Shellac

ditto with Condensate Varnish

ditto Condensate Varnish 5%

Paraphenylenediamine

only best to the Rubbery  
stage -

### Greases

Condensate Varnish Thicker  
Condensate Varnish containing  
5 to 8% paraphenylenediamine  
up to the Rubbery stage only  
then see if Varnish can  
be allowed off - also in  
connection with Acetoacetic

~~to~~



See Smith abt. Expts. to find  
out why stuff comes out  
in Cells -

See Galt ~~Miscellaneous~~ about  
Conditioning film drying  
Room

Learn about ~~Expts.~~  
Geometric parts on hand  
why so many ~~what~~  
we saw ~~and~~ -

Also of the ~~Various~~  
Miscellaneous ~~Complete~~  
parts & parts on hand

Materials on Disc -

Vic. Rec. on E. machine

"Amy Rago" for Disc -

Buchan about model  
box for Ford cells

Nehr why 3 air compressors

Nichols about getting  
Lacos for coal ~~mining~~

Listen to C. J. Rago  
+ Gaudin abt. ~~list of things~~  
Boyer quartz - do it right

Gwa - why not Chlorinide  
Penta in ~~strachlorap~~

Pick out discs for Australia  
& Argentina ~~A~~

Pick out discs for stacks  
& Rivers

~~Magnesium wire for  
reaction~~

~~See Kammerhoff about Roast  
Lumaca for \$2.50 &  
Storage fuel oil tank~~

~~Get some Paper Mache used  
by electrical pers. & press  
out back of model record  
bleamed & then dry see of  
OK.~~

~~Try Rocky metal.  
Cresol Resin -~~

~~Tell Learning 10 1/2 c  
for phenol~~

~~↓ We should get  
Cresol cheaper now~~

~~Dally  
See if Rocky fine  
sawdust will press to a  
Cake hat~~

~~Dally - also wood pulp  
Rosin - Paraffin,  
Glycerine & other cheap  
things -~~

~~Dally on Waxing acetate  
Tetrahydrocannabinol of Phenol~~

~~See if Paraphenylenediamine  
Condensed <sup>phenol resin</sup> with 1/4~~

~~Also if 6/4 will condense  
pure Paraphenylenediamine  
with phenol.~~

~~See #60 in wooden cabinet  
See if 2100 lbs press phenol  
Mader record & steel mould~~

35 new cylinders daily  
 1 used week profit,  
 profit 3420 week

#30 -	Week		
	5000		
45	275	} 1040 -	} 5 weeks supply cost
60	150		
80	100		
125	75		
200	50		
	0		

\$100000. #20 a week

Cylinder 30 new daily - 780 000 month  
 #95000 - 6 weeks supply 118000 required  
 19666 week

1000 dealers	month	on sale	week
#60	2000	60000	500
80	4000	60000	1000
150	1000	75000	250
200	1000	100000	250
250	1000	125000	250
higher	100	15000	25
	9100	535000	225
6 weeks supply		440000	1125
month		\$619000	140569

1/4 = 569 week

Disc - 1000 dealers each number  
 2 for attack - sell 15 records per  
 machine - this requires 5687 records  
 daily for 6 days at 1600 per attack  
 or 7200 daily -

2nd month	14000 daily	20 new per
3	20000	month
4	26000	
5	32000	8000 day
6	38000	9600 profit week

7200 records per day	is 250000	
for 6 weeks	cost used \$40000	
2nd month	154000	} 6 week investment
3rd	224000	
4	294000	
5	364000	
6	434000	

Disc cylinder 1 1/4 million -  
 on 30 day calendar basis -

Needs how far ~~going~~ have  
 you got machine for 50000  
 daily & what ~~is~~ required

Now ~~not~~ worth ~~to~~ think  
 it is about it -

Wm B Parkhurst  
 for private ~~investor~~  
 1/2 for ~~old~~  
 success ~~investor~~ with 1  
 11357

E Incorp	July	Aug	Sept	Oct	Nov	Total	July 15
Comps notes	15000	45000	50000	40000	53000	203000	
Customers "	28048	38127	26552	33389	1650	127767	
Mchdgy "	15000	50000	6574	20000		91574	422342
E Phono Wks			15000				15000
E Storage Bat							
Comps notes	18000	36000	107000	34000	21000	216000	
Customers "	16809	6144				29954	
Mchdgy "	8088	56227	36279	39394	22619	162610	401564
Total	85945	196496	284831	153357	118269	838000	

Cleaner for films  
glycerine ~~not blue~~  
~~Permut~~

Work out a give to  
transmits ~~stop~~ breaking  
films joints

Get out improved ~~flow~~  
powerful Malow # 80 # 60  
Run  $1 \frac{1}{2}$  12" Records

Get small diaphy & Disc  
Repdar on Kuelophone

Get motor for Malow to run  
new film ~~facting~~ Machine

Get design of film plant  
also of film plant across  
Road -

Jones on record ~~85 V Malow~~  
~~See how many 85 V Malow~~  
we got,

Get special connection  
power machine for  
Kuelophone -

Run film loops on our  
regular Kueloscope  
also Powers

Find out prices & questions of  
Small Ice Machines

See how ice ~~works~~ is used  
if pumps ~~over~~

Ask legal Dept about Holzgruenig  
Patent, ~~how~~ just  
Dedmund in Berlin -

Taylor on large ~~idea~~ & long  
lover having big ~~idea~~ to  
Record ~~valleys~~ in any way

Stop ~~from~~ ~~of~~  
go to ~~my~~

Take up on ~~APR~~ - put it  
on test -

How about big pic APR:

test on printing slides  
for APR -

Green - 19th	new	old
21	1	35
22	16	21
		18

listen to ~~Dance~~ of the hour  
1950 symphony ~~new~~  
lover has ~~idea~~ to  
listen to original ~~of~~  
see if ~~composer~~ same -

Nicolai - ~~W~~ paper too  
small ~~idea~~ of ~~main~~  
& big ~~idea~~

we have 1682 plates  
14500 up ~~at~~ -

~~Richard~~ Don't draw on  
Lab bottom ~~idea~~ wires

Daly ~~acetyl~~  
it shall be built  
with ~~transposed~~  
Keep ~~at~~

Unfilled orders July 12, 1973

Nicos -		Cylinder Washers	
60 - 1837		2470	
80 - 1316		Cylinder Perforators	
150 - 383		219194	
200 - 297		attachments	
250 - 343		262	
Hyper	37		

Big Phono 42 -  
Kinescopes 2  
Completed blanks 8589  
Remains 4938

Orders for records average for 11 weeks  
100,000 shipment 964544

Mr Waitt Sharon Conn.

See how long a Victor  
Walter runs -

Simpson why not use  
girls on ~~Station~~ ~~Drummond~~  
all other

Why not let ~~trapezoid~~  
go -

## Storage Battery to April 30 1913

Customer accts, 366 861 - all ok except  
demanding 30,000, probably get 40% or more  
Edwin Storage Bat Supply, California its cash & goods ok  
JAE building and new Ford addition, wages &  
goods, but by ESBat before check from E read  
part of this balanced against other assets payable

JAE foreign deposits for batteries ok  
E Chemical works 6726 - should run  
back at this figure, but the cost of the  
plant as shown on Chem Co's books is  
\$458,000, the difference being produced  
by profits,

Patrs 1,000,000, issued to E for Patents,  
250,000 these were given by E to the  
Board subscribers,

Patents chgd of 1/4<sup>th</sup> each year,

Plant & Equip. Gen R worth 30,000  
Doubt, mine unknown value  
Nj Exploration Co good

## Liabilities

Royalties accrued sales foreign Com  
Money advanced by E, not  
including any <sup>new</sup> building & machinery  
money

269,703 am open accounts on April 30

Notes 195,632 were issued to JAE Incorp  
& shown as lns for work done.

July 21 B. L. L. 19,296.  
Edwin 75,000 -



Convent Works

2nd National

Dec	9	6670 - very
"	16	5100
Sept	20	5100
"	26	6870
Nov	5	4600
"	14	4200

J S Rippeff 762 Broad Newark  
Alfred F Dennis % Post + Hwy Runway Bldg  
Newark

E Incorp. Feb 28 1913

~~Accounts receivable~~

About 100,000 of low = 15,751 is due from Mina  
Halogen Co pay in material - All is good but 22,500  
these doubtful - think some can be collected,  
Notes we have paid 112,198. \$ 11,320 is very slow  
McGreal 12,028 is probably good except  
Hooos disputed, he originally paid 38,000,  
deducting everything leaves \$ 88,848 good

The Mortgage of \$ 6,000 is owned by us  
+ is on a factory in Newark us sold 3 or  
4 yrs ago -

Cictron cars Edison, the only real value is  
\$ 32,195 being goods on hand + good accounts

Foreign Debt \$ 386,164, all good, active  
stock of machines

German Edison Co - 44,153 - OK stock of  
edm + phones on hand,

Lawsonics, finished Product, under + diff,  
all good -

~~Machinery Tools OK~~

~~Miscel Record Plant OK when depen subtracted  
Furniture + fixtures written off, on the principle  
that all Cos can do their clerical work on the  
floor -~~

~~Palmer + son, all been card cases -  
+ should be written off  
John plant, Brown + orange, 120,153 OK~~

~~Investments~~

~~French Edison Co 19167 - NG  
J A E Limited London 230,460 slight  
Inventory 192000 - only 195,801, is good.  
We charged off \$ 73,000 worth electric  
records - The account receivable of  
Chas Co is \$ 107,526 same good.  
The Co owns 64,132 - leave \$ 203,460  
deduct, 64,132 - gives \$ 139,328. Value of  
investment.~~

~~Motion Pic Pat Co 50,000 OK is Govt  
Loves Point if it wins -~~

Investments

~~Motion Pic Pat Co 8,500. OK  
 Australian Co 24,300. OK  
 General Producing Co NG  
 Phonograph Co - (Chicago) OK cash~~

~~Bonds & Cash investments 31,541.  
 6000 NYC 3/8  
 5000 W. Shore  
 5000 U.P. 4's  
 9000 - E.P. bonds -  
 6088 Cash  
 31541 - Cash 25452 -~~

~~But this year started write off 1/17<sup>th</sup> of all each year.~~

~~Doubtful assets receivable in hands of attorney~~

W.M. Oliver	4001.00
Dale - Irving	6654.00
Barker & James	5191
H. Goldstein	166
Jan J. Lyons	1840
Mitchell Film Ex.	564
D. Shepherd	1594
Sumner Storm	700

~~July 21 - Bank bal of 206,800.  
 must pay tomorrow 82,000 -~~

Sales - 1912-13

4,951,646.

Net Assets 662,305 -

Net Assets - 3,849,811

Actual Value 4,580,000

Ethens works -

Assets receivable 45,130<sup>00</sup> all good, E.S.B. + Bates entry

Inventories finished product Raw  
 Materials supplies 1,116,414 - all good

Cash Reserve. had it borrowed it double entry -

Accounts payable 1,978,858 - 83,340 of this is due E. Encomp. E. balance  
 115,517 due outside for materials -

Actual good - 1,947,451  
 Over 377,858  
 Over 1,569,593

Value 1,533,666 -

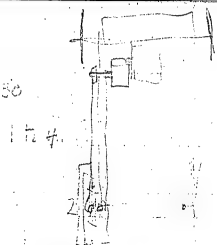
Machinery etc. v. low.  
 been depreciated for years + keeping it in good order -

Average Bank Balance Co of E. Encomp

from 1906 - 179,000	1913 - 261,000
1907 - 199,000	
1908 - 219,000	
1909 - 241,000	
1910 - 182,000	
1911 - 442,000	
1912 - 428,000	

(15)

50



51 34100 -  
680

680 lbs. 670

680 - 170 lbs

470  
26  
2940  
990

12740

172  
141  
121  
434

660.000 -  
434  
226

660  
226  
335

June 226  
July 335  
Aug 300  
Sept 250  
Oct 150  
Nov 1,267

1,250,000  
120  
250000  
1,260  
1,500,000

263  
120  
113  
660

1320  
80  
1056000

420  
300  
360  
410  
510

1980  
15840  
10560  
263

5500  
 157200  
 116000  
 42200  
 27  
 24  
 10  
 40-  
 26  
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 100

Moulds run 6 days (200 prints)  
 25 Records 50 Moulds on board  
 83 are discarded daily -  
 Product 950 Prints  
 Night relay 16% pulled off daily  
 Product 1900 - 60% per 1140  
  
 50 on board - 33 moulds  
 discarded daily Product 3800.  
 60% 2280  
  
 75 on board 50 moulds  
 discarded daily  
 Product 5700 -  
 60% 3400  
  
 100 on board 66 moulds discarded  
 daily - Prints 7600 Records  
 60% 4500  
  
 164 Baths 14 for white repair  
 leaves 150 baths 168 hours  
 weekly - Maximum capacity  
 60 hours each 420 moulds  
 or 70 per day

Tuesday - Many things in NY  
Wednesday - meet Madeline at home  
goes to meeting downtown in Eve.  
Thursday NY all day  
Friday - Grand Mrs. Stephens  
& Mrs. [unclear] to dinner

Saturday - Done violon in morning  
Sunday - then automobile  
Monday - away somewhere  
lunch sent down in  
Eve. went to the City Club  
dressed for dinner

Monday goes to NY  
with Madeline to see Cora  
since Nelson death talk

Tuesday - Mrs. Upton appropriate  
Wednesday - ~~at home~~

lunch sent down

Thursday over to South Orange

for lunch, did not eat with me  
but wanted talk & get home  
In Evening goes a dinner  
Mary Meade, Shostet's wife -  
Friday went to NY

14 Dalmonen went away somewhere  
sent down -

Sunday - put out in auto  
Monday - Women Club  
then, Beachfront Park  
casserole in Evening  
Women's Club.

Wednesday all day Women's  
Club -

Thursday out for lunch  
Friday lunch at Mrs. [unclear]  
then to [unclear] meeting

Saturday - Dance at W Club  
home 12:30 am

Sunday - Church -

Monday - away in morning  
return at 11:30 -

Tuesday in NY all day

Wednesday - lost track

Thursday - away 12:30  
lunch sent down -

$$\begin{array}{r} 38 \\ 190 \\ \hline 209 \end{array}$$

$$\begin{array}{r} 250 \\ 17 \\ \hline 240 \end{array}$$

$$\begin{array}{r} 240 \\ 48 \\ \hline 288 \end{array}$$

$$\begin{array}{r} 158000 \\ 20000 \\ \hline 178000 \end{array}$$

$$\begin{array}{r} 250 \\ 450 \\ \hline 700 \end{array}$$

$$\begin{array}{r} 612 \\ 110 \\ \hline 722 \end{array}$$

$$\begin{array}{r} 530 \\ 62 \\ \hline 592 \end{array}$$

$$\begin{array}{r} 660 \\ 7500 \\ \hline 8160 \end{array}$$

$$\begin{array}{r} 660 \\ 800 \\ \hline 1460 \end{array}$$

$$\begin{array}{r} 660 \\ 2400 \\ \hline 3060 \end{array}$$
  

$$\begin{array}{r} 20 \\ 120 \\ \hline 140 \end{array}$$

$$\begin{array}{r} 10000 \\ 660 \\ \hline 10660 \end{array}$$

$$\begin{array}{r} 660 \\ 660 \\ \hline 1320 \end{array}$$
  

$$\begin{array}{r} 16 \\ 19 \\ \hline 35 \end{array}$$

$$\begin{array}{r} 660 \\ 40 \\ \hline 700 \end{array}$$

$$\begin{array}{r} 114 \\ 40 \\ \hline 154 \end{array}$$

$$\begin{array}{r} 125490 \\ 49780 \\ \hline 175270 \end{array}$$
  

15 premium

$$\begin{array}{r} 100 \\ 2100 \\ \hline 8100 \end{array}$$

$$\begin{array}{r} 104 \\ 2900 \\ \hline 2880 \end{array}$$

$$\begin{array}{r} 2880 \\ 220 \\ \hline 3100 \end{array}$$
  

$$\begin{array}{r} 40000 \\ 3600 \\ \hline 43600 \end{array}$$

$$\begin{array}{r} 660 \\ 44080 \\ \hline 44740 \end{array}$$

$$\begin{array}{r} 55 \\ 50 \\ \hline 105 \end{array}$$

$$\begin{array}{r} 3300 \\ 80 \\ \hline 3380 \end{array}$$

$$\begin{array}{r} 2750 \\ 264000 \\ \hline 266750 \end{array}$$
  

$$\begin{array}{r} 300000 \\ 800000 \\ \hline 1100000 \end{array}$$

**Notebook Series -- Pocket Notebooks**  
**Notebook, PN-13-09-24**

The dated entries in this pocket notebook are from July-October 1913. The book was used by Edison to record ideas about business matters, experiments to be tried, and other tasks to be performed. Many of the items have been crossed out. The entries at the beginning of the book pertain to the finances of Thomas A. Edison, Inc., and other Edison companies, as well as to Edison's personal finances. Similar information can be found in PN-13-07-12, and some of the entries in that earlier book appear to have been copied into this one. The remaining entries relate primarily to the development and production of disc records. Included is data on production costs, daily production numbers, and salaries. Also included are notes and instructions about automobile starters, chemicals, batteries, cell regeneration, miner's safety lamps, and kinetophones.

Among the numerous Edison employees mentioned in the book are experimenters Charles T. Dally, William W. Dinwiddie, Archiebald D. Hoffman, and Sherwood T. (Sam) Moore, principal assistants in the development of disc records; Charles W. Luhr, superintendent of the West Orange laboratory; and Carl H. Wilson, vice president and general manager of Thomas A. Edison, Inc. The pages are unnumbered. Approximately 150 pages have been used.



	July <sup>15</sup>	August	Sept	Oct	Nov	Totals		
E Incomp								
Co's notes		45000	50000	40000	53000	203000		
Customers		38127	26552	33389	1650	127767		
Merchdiz		15000	50000	6574	20000	91574	422342	
E Phawks			15000					
ES Battery								
Co's notes		36000	107000	34000	21000	216000		
Customers		6144				29954		
Merchdiz		56227	36279	39394	22619	838000	401564	

July 23. Balance in

Germania 511562

Merchants Ex 23048

To both have 55000 Cement notes

## Storage Battery

April 30 1913

Customers acct 366861 all ok except Lamsden  
30 000, possibly get 40% of this  
Edman S. Post Supply Co. California Cash & goods 4k  
JAE btds acct New Ford addition, was made  
Dr, but by E SBC before check from E used  
part of this is against other acct, pay all

JAE foreign depot for bats OK

E Cham Wks 61726, stands on books at  
this figure but cost plant as shown on  
Cham Wks books 4458 000 bal being  
reduced by receipts -

Patent 100 lbs issued to E, 200 one of them  
given by E as bonus on bonds

Patent chgd of  $\frac{1}{4}$  each year

Plant & Equip. Glen Ridge worth 20 000  
Darcy Muns. Linton, Va. 1000  
N.J. Exp. Co. on G. good -

~~L. G. H. H. H.~~

Royalty received from sales money  
advanced by E. include Ford acct  
269 703 also open account, April 30  
Notes 195832 issued to E group  
for work done

July 21 B Bal 19296

Edman Ford balance 5

E Incorp Feb 28 1913  
accounts Receivable

100 was slow - 15751 due from Ming  
Halogen Co pay in material, all is good  
Except 22556, doubtful, probably some  
collectible -

Notes we have are 112198 11320 is very  
slow. M<sup>o</sup> G<sup>o</sup>sd 12028 probably good except  
4000 disputed, he originally owed 38000  
Deducting everything leaves 55548 good

Most group of loans owned by us is on  
factory in Newark, sold 3 or 4 years  
ago

Cie always only real value is 32195 -  
being goods on hand + good accounts.

Harley Dept 386164 all good, auto's  
stock machines,

Yeoman Edison Co 44133 OK stock  
films + phonos

Our inventory furnished perfect  
Materials + supplies all good

Machinery + Tools OK

Miscellaneous plant + R  
when depon submitted

E Incorp

Furniture + fixtures written off  
Sales wagons written off  
Film plant Orange, Bronx  
120133 OK

Investments French Co NG  
TAZ Limited London 95801 good  
accounts receivable films Co +  
107826 + are good. Co own 64132  
leaves 203460 deduct 64132  
gives 139328 value of Co

Motion Pic P 50000 OK if we gain  
suit, if lose to NG -

Motion Pic Co 8500 OK Australia 24330  
OK - Genl Producing Co NG  
Phono Co Chicago Chicago OK

Bonds + Cash resources 31547:  
6000 NYC 3% - 5000 WS 5000 UP +  
9000 phono with bonds 6088 Cash

Sales 1912-13 4,851,646.  
Actual Value E Incorp 4,572,116, over

Buss 662 305 net Value 3,849 811 =

July 30 1913 Bank B 209 000

E Phono Wks -

Accts Receivable 45138, all good  
 Furniture 1116 4/4 - OK  
 Cash Reserve had it, borrowed it  
 Double entry -  
 Accts payable 197 858, 83340 of this  
 is due Edwamp balance 115517 due  
 outside for material  
 Actual good 1947 451  
 over 377 858  
 Value net 1 533 666

E Corp - Average B Bal several year

1906	179 000
1907	199 000
1908	219 000
1909	241 000
1910	182 000
1911	442 000
1912	428 000
1913	

Aug 7 1913 Cement Notes -

Notes to pay acts	34 707
Discounted Union Natl	88 250
" North Ward	39 500
" Merchants Exch	50 000
Easton Trust	24 500
Germania thru T&E Inc	54 500
Union " "	5 000
2nd National "	27 440
Warehouse Notes - Miller St. Lumber Co	40 000
	<u>363 897</u>

July 24	
Bank Bal	16 278
Accounts Receivable	318 666
Bills "	25 662
Checks 33000 666	18 191
Cement 165 000 "	107 269
Bags & Coopage	60 207
Store room stock	60 000
	<u>606 295</u>

Notes	34 707	} 144 339
accts payd	95 231	
Acct of R&H	14 400	
		461 950 - 220

## Cement

2nd National Orange	
Bus Chrg 9.	6670
16	5100
Sept 20	5100
26	6870
Nov 5	4600
17	4200

Alfred F. Andrews of Post & Telegraph  
Kenny Bldg Newark

Unfilled order July 12  
Cylinder Mac 2470  
" Records 219198

Attachments	202
Dues = 60	1837
80	1316
150	383
200	297
250	343
higher	37

CA4J

Dictating	42
Kinetoscope	2
Lelands	8589
Renovals	4938

CA5J

Orders for Blue A records post  
11 weeks ending July 25  
100,000, with shipments 96454.

See how long Victor Motor runs  
& weight on point;

Simpkins, Why not use quills  
roughing diamonds

Why not let Traphagen go -

We have 16821 German S plates  
14500 up stairs -

Get Catalogues Mfr small ice machines

Connection ~~Kin~~scope to all  
Projecting Machines -

Governor (Electric) for  
Dictating Machine  
Disc  
New Kinestoscope  
Electric motor for discs

Design new lay out film plant

See about cleaner for films  
get blue prints from other Mfrs.

New model motor for # 60 & 80.

Arrange get Wm B Paschke  
for private inspection 42 yrs old  
once chief inspector till 2 yrs ago

Russ ~~Kehr~~

Castings for top of Post  
only 10 daily 58 var later



Estimated Sales this winter

#	Week
30	500
45	275
60	150
80	100
125	10
200	5
	<hr/> 1040

5 weeks supply costs 100,000.  
or 20,000 weekly

Cylinder Records 30,000 daily  
780,000 monthly \$95,000.  
6 weeks ahead 118,000 required  
19,666 per week.

Disc	
# 60	500
80	1000
150	250
200	250
250	250
Higher	25

$4 \overline{) 2275} = \frac{1}{4}$  in 569 week

6 weeks supply requires investment  
\$642,500

Discs 1000 dealers each to have 2  
times in stock - Sell 15 records per  
machine, requires on above sales  
5687 records daily for sales or  
1600 for stock, total 7200 daily.

If  $\frac{1}{4}$  of above is sold requires  
daily 1800 records,  
with 7000 out each buy 8 times  
month, we have in 2nd month  
with 15 new times 2 each for stock  
120,000 - 4610 daily

3<sup>rd</sup> month. 138322  
 or 5320 daily -  
 4<sup>th</sup> month 6600 daily -  
 5 6680  
 6 7,360.

Daily JWA. Rosin etc substitute  
 for Cresol resin in disc blank.  
 also Paraffin, rather resins.

Pick out disc records for ~~Argentine~~  
 & Australasia

Pick out discs for Steals & Kurum

~~Any Rays for disc.~~

~~Modifier on Disc~~

Vic records on own Disc

Daily about using acetic acid  
 as solvent readily soluble  
 it dissolves, cracks & mangle  
 with most organic solvents

~~For Talent on Disc~~

<del>1000 records, <sup>daily</sup> cost latest</del>	<del>24.7 cents</del>
<del>1500</del>	<del>16.10</del>
<del>2000</del>	<del>12.15</del>
<del>3000</del>	<del>8.10</del>
<del>4000</del>	<del>6.00</del>
<del>5000</del>	<del>4.86</del>
<del>6000</del>	<del>4.00</del>
<del>7000</del>	<del>3.47</del>
<del>8000</del>	<del>3.00</del>
<del>9000</del>	<del>2.70</del>
<del>10000</del>	<del>2.40</del>

158. June for Recording

July 24 1913 Current cash

Bank Bal.	16278
Cash Receipts	3181686
Bills Receipts	25662
Cash 165000 <del>666</del> (688)	167269
Checks 33000 " (58)	18191
Days & Co. pay roll	60207
Stateroom stock	60206
	<hr/>
	606295

Notes	34707
Acc't Payable	95231
Accrued payroll	14400-

Aug 1 1913	Machinery				no Repairs or Carbine	Cabinets in stock	Stock	on order packages	Making bags
	100%	75%	50%	25%					
	on hand				450	25			
					425	22		24	
					400	2		32	
4 strands	500				375	3		37	
Standard	500				300	11		50	
Home	250	500	1500	2500	290	0		77	
Triumph	100	250	500	850	275	4		52	
Ambs B	200	100	100	150	250 M	1265	2000		
Concert	200	100	100	200	250 0	601	500	46	
Disc 250	250	500	200	300	200 M	400	1192		
150-200	500	500	500	1000	200 0	225		389	
Amb 8 <sup>1/2</sup>		5000			150 M	953	535		
Amb 10 <sup>3/4</sup>		4000			150 0	374		171	
7 strands to be used in Amb 6 after 2500 gals					80 M	505	2200		
Amb V	1800	200	500	800	80 0	186		1300	
" VI	2000	500	200	300	60	149			
					Amb 1 m	51			
					" 0	174		53	
					111 M	35			
					111 0	58		80	
					V M	402	1623		
					V 0	267			
					VI M	1929	new 1000	736	
					VI 0	121			

6000000 gals  
750000 gals hardware

Rosin softens at 158° Fahr  
Melts 275° Fahr

Try if you can get Rosin  
softens same as Rosin +  
find cheap acetone can  
well lower MP of Rosin -  
Try wood Tar pitch -

Don't forget print Copper mesh  
on gratified mould, want stop  
making -

See why wax can drop  
4 mm + 2 mm wax  
+ make them Celluloid

Ask YUM why your pipe  
went so far Condensing  
Water from saturation  
pressure

Get total Coats behind  
Wax Coat -

Dolbeers Mouth

Amb 17 200 - 50  
 3 - 125 " 50  
 4 \$100. 100  
 5 50 200  
 6 60 750  
 8 45 2000  
 10 30 4000

1787-

7150  
 17000

A 60 wood 2500  
 80 2000  
 150 4000  
 200 6000  
 250 10000  
 Huplar. 2500

1687-

6750

Dolbeers estate  
 Sept 8 425 day  
 Oct 10 461  
 Nov 12 000  
 Dec 13 115 "

Schedule for Machines only  
 Aug 1 + transfer

Ambrosia 3 - Mohogany 9 per week  
 300 " 3 Oak 25 "  
 " 4 " 25 "  
 " 5 Moh 35 "  
 5 Oak 15 "  
 13th week 6 Moh 150 "  
 6 Oak 50 "  
 2000 " 8 (1150 cost) Oak 75 day 1000  
 1650 " 10 Oak 150 day 900  
 2250  
 5910

Disc Machines

	Wick	Day	
250	Moh 180	30 day	5000
250	Oak 30	5 "	625
200	Moh 120	20 "	2000
200	Oak 60	5 "	500
150	Mo 72	12 "	900
150	Oak 24	4 "	300
80	Mo 300	50 "	2000
80	Oak 60	10 "	400
60	Oak (450)	75 "	2250

12675

5483000  
 month

1157 week -

2413

480  
 270  
 70  
 960  
 70  
 440  
 90  
 1300

95  
 40  
 440

35  
 65  
 170  
 125  
 40  
 20  
 200

15000  
 96  
 71  
 4140  
 6120  
 7200

360  
 40  
 75400

440  
 30  
 17500

Ann 8- 9900  
 13000  
 6000  
 3400  
 32800  
 400  
 14120  
 77350  
 26855  
 15000  
 7200  
 14400  
 14500  
 77350

Ambergris

~~Looking for Reelton account see what construction we have need~~

~~Legal Dept Did not make some arrangements with Commission on the program~~

~~Seated working on our Reelfi - 4 parties~~

~~Kennedy - person need Kenyon Radio pointer Electric machinery - Governor~~

~~Dict Randolph on Sunday Village of SC to chgr 75 cells across weapon~~

1950

Moors about using 4 to 1 as  
soon as possible

Keep track of printing Maslins on  
Celluloid as having many times  
marched blank print & numerous  
gas, had prints

Days got out for ~~about~~ <sup>about</sup> 10  
trials, will come in Evening  
& test

Preming leave Richardson's Rocks  
so can get them when you  
away

Wilson's ~~Temple~~ <sup>Temple</sup>  
The funny part is 4 of  
them cost us but the act  
say a case of 6  
also Reg a portable performer

Ask Smith how getting on  
with Iron plates

Ask Hoffman how ~~the~~ <sup>the</sup> ~~trains~~  
worked - get

Get answers from ~~them~~ <sup>them</sup> about  
Rovin

See Simpson about ~~the~~ <sup>the</sup> ~~Reps~~  
& grinder for points with  
angles

Look at New Model # 60 80  
see how many records it  
does if OK so can turn it  
over to use after our stock  
depleted

~~of~~ <sup>of</sup> ~~the~~ <sup>the</sup> ~~disc~~  
Disc of Carb for 2" dia -  
make thick for EMQ  
Kinestrophs  
make EM to use it

Try hardening & bush above  
by soaking in lime water  
& exposing air



~~See if any more <sup>from</sup> voco  
trials -~~

~~Next time <sup>edit</sup> Combs  
test in Parkland room &  
Music room~~

~~Go over & see the wear record.  
return room & find out all about  
stock etc,~~

~~Look up raised platforms &  
Tarpaulins for storage  
ment stuff -~~

~~How was they getting on  
in Combining film drying  
room -~~

~~Call - test flasks on cell  
Maks Kunkel tapes -~~

~~Go over Bat's see how they  
are getting on placing  
resolving - tell Bach  
should make drawing volume  
found Combs - also box  
for the 4 Bz -~~

~~Get list from Kunkel off of  
things to order -~~

~~Speak Bachman about  
firmware Tarpaulins -~~

~~Look up about standards  
on Bunch - what is it  
being done for~~

~~See Charles on buy  
Realizer -~~

~~Write Devine if he has  
brought any further on  
the V-Dos, for Kunkel  
on plates etc  
also dirty films on Rocks~~

Why not put a Education  
mushers on ~~try~~ my  
many plates, would little  
Voc. / Orvis if they will  
fit - see plate with fit

Fred Hill Home about a  
Spore Creek for ~~the~~ plating

Walter Wilson diet  
Mushers on 1/2 1/2 1/2  
get fixed -

Get some Antiviral ~~or~~ ~~or~~ ~~or~~  
if Cant get mushers  
+ cont with lampblack by  
Carbonizing - use it find  
than Plating -

Use disc photos in Paraded  
room - was talking disc  
etc in all experiments -

Try Bell Record and Emgraph

Dally - Try wet film  
in vacuum see how much  
dried normal lamp or by  
100 also 120 / film -

Dally see if ~~the~~ 4/6 in  
set in Acetyl ~~the~~ technical  
so can use ~~the~~ ~~the~~ ~~the~~  
have 4/6 in it -

Discuss ~~the~~ about  
ordering of also the number

Wilson do not have to  
pay \$5 Royal to get 100  
on Kumbor ~~the~~ ~~the~~

Wilson when ~~the~~ we get in  
our new place in  
London,

Like get Sales House V regulative  
& different recourses up to back  
& Bergman put them in weekly  
report also count stocks on  
hand & shop orders. —

Learning - ~~work~~ but Cabinet  
on hand & ~~order~~ all phones

Monday Aug 15  
#32 000, in Fort ~~fund~~ —

Kammhoff ~~Shoring~~  
out, Iron pots ~~by~~  
acc ~~cybernet~~ —

Get Phenolates ~~sol in alcohol~~  
& add 1/4 & heat see ~~report~~

Plate Ni & 1/2 1/2 —

Electrolytic view, Langben-Banbous  
C. design in history, 1st time as  
said as ~~the~~ iron was used now  
in water solution iron sheet in  
ammonia ~~using~~ 1/2 hp quars  
with electric ~~and~~ man 1.3 hp  
to free from hydrogen  
Deposited at 100 to 120 C  
in an iron salt mixed with a  
hydroscopic salt such as Calcium Chloride

Krupp makes iron alloy  
used in ~~the~~ big or ~~the~~  
Nitrac, ~~the~~ ~~the~~ ~~the~~ ~~the~~  
to ~~the~~ ~~the~~ ~~the~~ ~~the~~  
to ~~the~~ ~~the~~ ~~the~~ ~~the~~  
Chromium 2.1 to 5.1% in ~~the~~  
up to C. 35. ~~the~~ ~~the~~ ~~the~~ ~~the~~  
at ~~the~~ ~~the~~ ~~the~~ ~~the~~  
boiling

~~See where Bergman  
Mudd & Harby  
make their metal  
ferrous oxide &  
Customer~~

~~See if Dunstons has made  
the Auto analyzer for  
Dise Laboratory~~

~~Davose Fe in Can  
in boiling 5% KOH  
separate Can no water  
in let it go for several  
hours they dry  
Corrygals~~

~~Phenol is the best solvent of  
acetylacetone - Try it  
in 1 volume with 1/4 - Dissy~~

~~Dunstons sold me a sample  
para phenylene diamine for  
Copper bath same with  
other bands~~

~~Moore 521 - See box in flow  
room~~

~~If in hurry bring plates  
in so hot you hardly  
walk hand on -~~

~~Take up with the low  
shaking all badges  
Nels Can take care with  
his own ship -~~

See Baadrum about  
Kammunbragg ~~Bocherhouse~~.

Take the men from desks  
upto Nehr for ~~explan~~ it  
on report of ~~Bocherhouse~~

What Salary Neoloi getting

See Golt about ~~handing~~  
his new mechanism

Lanahan ~~direct~~ up from  
Perquimann Court ~~see~~

See Fond ~~Cox~~ Carter

Inspection Check system  
Top plate powder press  
dialy 10 disc of speed  
599 bad pull onto white  
either side or bottom all  
good - Use magnets,

Use magnets on ~~press~~ his  
inspection before printing

~~Stop~~ Examine of ~~step~~ buffing  
only ~~work~~ " ~~use~~ magnets

Want see ~~part~~ of Caldwell  
~~press~~ ~~see~~ out, no  
press ~~of~~ engines

Schedule of Production

1500 wck	Amberata III	12	wcwk	
	IV	25	"	
	V	50	"	
	VI	200	"	
	VIII	75	Daily	1225
	X	150	Daily	

1160 wck 600 212000 month	Disc A250	17	<del>25</del>	Daily
	200	12	<del>25</del>	
	150	8	<del>25</del>	
	80	60	76	
	60 wck	75		
			135	

Nehr Try do any  
with Benzole use  
Benzene

~~Worry about looking  
up that Weston samples  
to Perceps Dept near  
now in Kimbony  
Room might do for  
general mass~~

Agitate developed  
by pump (big and  
better scrub 1/2 fine)

Filter system for Developer  
& Depo-like plating  
plant,

Wash tanks normal. Water  
Water is now filtered

Try Developer B at once

after washing dipped  
1 run in 1 qt, 20 lbs  
180 gal water.

Good all for air pipe  
in lower plumbing  
room -

Rooms always send  
notes from baths  
up stairs so we  
can always be sure

that they are ok  
& not pick up a lot of  
bad ones

See what is date of  
Machinery bonds -

606 - Horribly rotten -

Schedule on Crampas  
pres of Good work

7 Contact

2 on low

7 on high

12 Coal

} 91%  
subsequent supply  
also this is good  
to schedule

Reqs schedule -

2 Contact

1 low

5 High

} mean that  
if allowed then  
get only  
50%

\* Hoffmann's  
plates were hot

x damaged parts  
from last

606-	384	1/4	more Paints #
607	521	"	1/4 "
608	384	"	50% "
609	521	"	50% "
548	7.9%	6/4	3/4 Paraphenylenediamine
611	10%	9/4	4% "
612	7.9%	5/4	4% "
613	5.9	5/4	4% "

~~Chloroform~~

Dry Expt of 50g of 1 lb of  
Paraphenylenediamine by 14.02  
+ dry - + use this  
instead of Reg. Para -  
see if you can do it

594 all Rosen

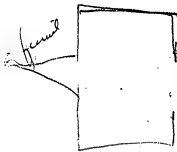
590 is 1/2 + 1/2 Rosen + Caustic  
+ 2% 6/4

Dry Expt of drying surface  
papers blank with milled  
Rosen at 2 days



To get blank so remove most traces  
of off.

Below prod R to New London  
then to Portsmouth NH.



Box -

Remember the  
Served at  
Morgan

See get for food later  
night along of some PK  
below



Since we can make  
good transfers with 521  
Make some ~~condensate~~  
submersions with 521 &  
Print gold plate -

Each batch phenol Resin  
Make test of 7, 9, 8, 5  
to determine best 6/4  
ratio to take care of  
free phenol.

See if where ~~probes~~  
blanks & washed out on  
transfer, want the places  
where second runs  
out.

4  
Fix more ~~align~~ paper in case  
or in temperature to reach  
350 deg for ~~resin~~ in  
furnace.

See Moore. ~~Shore~~ piping up  
4 pieces 1 man ~~with~~ all  
cheaper help to ~~load~~ ~~film~~  
transfer etc -

Find way to ~~plate~~ transfer  
plates. Stop by ~~Aluminum~~ -

Test ~~heat~~ transport sheet  
Collins & ~~Wera~~ gave me if ok  
see if can get ~~shipping~~ -

If ~~Dally~~ or ~~Christie~~ got  
good stuff make sheet  
12 X 12 to ~~cut~~ 10 1/2 - & test  
use ~~but~~ ~~Chapman~~

About ~~making~~ more  
film ~~dryers~~ -

Try 521 - seasoned for  
dip length the time in See  
Chart & also at 72' Take

See if  $6/4$  decomposes  
or absorbs moisture  
& Haffman gets wrong  
weight

Take up with  $7/8$  a test  
method of determining  
the  $6/4$  & free phenol of  
each batch should  
Review -

See Cellulose people  
& arrange for samples

Daily  $33/4$  to  $1\ 3/4$  to  $1$   
or  $3$  to  $1$  dip on cellulose  
to get smaller also

Same with Cresophor - also  
press Cellulose between  
parched paper as below  
plates hot then dip  
 $4$  to  $1$  & less -  
also try Acetocellulose  
if it will stick -

Haffman ~~just~~ How about  
making 5000 lbs batch  
phenol section + mix  
then make 1000 lb &  
test 6 rounds for  
proper amount of  $6/4$  -

See result of the varied  
proportions of  $6/4$  - Phenol  
& para, about 1000  
oz of salt

Find out how the  
total sets of factory that  
have gone over of year  
& those that haven't  
& those which will reach  
of year month by month

Will take up the Beano's  
Camera & ask if we  
can utilize it. Proposing  
to take - also basis of  
new Construction report  
I submit

Have Daily or (all  
got 1/2 doz 321 +  
Take with reg sched  
but up to 325 doz

Sept 24 1913

Smith Reg up Beantille A  
4 = Cereal also Geology  
so do equivalent to 10000 lbs  
bales - also dry dry  
ask Smith if 10000 lbs -  
also about progress reorganizing

Plot for life oil vial -  
Top strong even flat  
reducing finger at top so  
Quartz plate stepping can  
take place

Acc of Arachnathan prepared  
within Monday amount 1000

YWA Heat crude sent up to  
trump at distilla. where use it.

Reference Purview of Smith  
head in Hypocenters Na. or B.

~~Dist. Mason D. they have a  
good amount of money  
if he could do some  
more work for her~~

~~Wells Wells  
Lalack 1000 and 1  
Wells Wells  
Wells Wells~~

~~Remuneration of Glad  
made by W. B. B. B. B.  
Franklin & M. B. B. B.~~

~~Patent - Paraphrasing  
for dist.~~

~~Orville's Para. in Annual  
Sat. Dec 0 1/2 or  
Annual 1/2 1/2 -~~

~~See you find out how  
we can get that nice  
cellular structure, which  
he gave me -~~

~~Wells says upwardly  
delay in new science  
is due to delay in  
Printed Miller  
See McClean &  
Wells says paper  
been so 2 years~~

~~Hang Sale / 2 Hangs~~

~~Case high~~

~~find out what is done  
with it & write  
instructions, can we use  
for experiment~~

~~Have the Disc <sup>Repeating</sup> attached~~

~~Put in order by Lukas  
& lock up~~

~~fix the handle  
Quadruple sloping~~

~~Put Diagram on~~



~~for Fred Elger - in / ask him and  
meeter from old cents look  
at it -~~

~~& design it in the form -~~

~~Try see if Extruded will  
work a fan or a simple line  
cut for alarm for 'cotley' dynamo~~

~~Buy also Plethron  
Walker Miles - 3 coils, cells  
to test things this morning~~

~~Swiss around 100 521~~

~~plans to take edge off  
varnish - 4 test 2/3~~

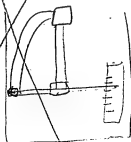
Wattle surface Couple  
plates by ~~using~~ ~~trunk~~  
in 21: ~~10:2~~ ~~test~~ —

to ~~off~~ ~~inner~~ ~~Make~~ ~~up~~ ~~to~~  
oil ~~varnish~~ ~~width~~ 15%  
more ~~6/4~~ but ~~will~~ ~~not~~  
any ~~Palm~~ or ~~Paralox~~ &  
Keep in ~~use~~ ~~not~~ ~~to~~ ~~be~~ ~~left~~  
& ~~call~~ ~~for~~ ~~it~~ —

See how ~~transfer~~ plates  
fit ~~locking~~ or ~~holding~~ —  
perhaps something ~~is~~ ~~going~~  
here

(Better ~~mark~~ ~~work~~)  
of ~~the~~ ~~holding~~  
plates in 1 ~~press~~ & ~~see~~  
if ~~there~~ ~~is~~ ~~not~~ ~~1~~ or ~~more~~  
always ~~works~~ ~~good~~  
transfer —

~~Dumbbell~~ —



Bengoate  
Salicylate  
Phthalate  
Phthalic } of Paraphenylenediamine

~~See p 11~~  
Pass Ammonia ~~any~~ into  
Varnish after 6/4 Para + Pent  
is in (10) Reg Varnish & see  
how I ~~combine~~ on glass

See if phenol ~~is~~<sup>out</sup> ~~is~~ ~~is~~ ~~is~~  
with ~~Para~~ ~~of~~ ~~Paradichloro~~  
also the other things  
I used -

~~Aluminum~~ ~~is~~ ~~is~~ ~~is~~  
about diameter in  
Phenol deposits  
I was about actual  
good label and -

~~Plenum~~ make a  
disc receptor for white  
Muster to reproduce  
using heliograph  
to get ~~hand~~ -

~~Make adjustment to go on~~  
~~our machine to wheel any~~  
~~Vic speaker can be changed~~  
~~on -~~

~~Moore Bridge 48 blank~~

~~E  $\frac{1}{8}$  + 48  $\frac{1}{16}$  circle~~  
~~+ transfer~~ ~~or possibly mould~~  
~~cut ~~the~~ ~~metal~~~~

~~also 48  $\frac{1}{32}$  hole dia 48  $\frac{1}{16}$  hole~~

~~also 18/1000 deep + wide~~

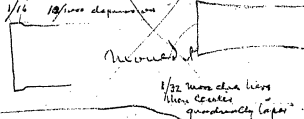
~~would long run~~  
~~of ~~the~~ ~~metal~~ ~~the~~ ~~same~~~~  
~~of ~~the~~ ~~type~~~~

~~change a mould to do it -~~

~~Select 100 most white~~  
~~plates & 100 most patterned~~  
~~flow same var make same var~~  
~~Wagner some blanks - 013~~

flow 25 ~~g~~ plates, 14 plates  
 wipe with oil rag, which has  
 been wet with Castor oil -  
 25 Sells & Bore on air - Turkey Red oil  
 Lanolin - Paraffin and kerosene  
 also only around edges wipe

~~Moore's Blanks -~~



Make some Council Condensate  
 little large dip 4 to 1  
 Celluloid ~~sticker~~ on print  
 from blanks,

~~Moore~~



~~Blanks Milled~~

~~30/1000 thickness at edge + 1/2 back  
 or 3/16~~

~~Moore - new schedule -  
 but before cooling medium  
 pressure to 300 lbs. per sq  
 inch 200 lbs,~~

~~After plates are removed  
 from press put them in  
 Chamber & pump air in  
 till 100 lbs. pressure  
 delivery Valve - used  
 compressed air -~~

~~Moore - Blanks~~



~~Make four row small batch  
 2 1/2 Para + 8 12 15 + 25 %~~

~~Hydrochloric acid the other  
 Chem. oils that are used  
 also 15 + 25 Para only~~



Moors = I remember that there  
is scarcely any instance where  
if a plate sticks & must  
be allowed off that it has  
Cracks  
Looks as if transfer program  
on platters was bad

Moors - do the plates fit  
the holder in transfer  
Also out of 1000 cracked  
transfer or plates -  
having one  
on both sides & how many  
on 1 side having these kinds  
of cracks

also in deep transfer  
and there very small  
Cracks start at edge  
which might increase  
in production

~~Get payroll in Disc Dept.~~

~~Cut out dice of moorals  
with or cracks check  
Check a bag on blanks -  
transfer~~

~~Mount, shipping in  
Chinese transfer~~

~~Bergstein - Repay  
the 45,000 borrowed off  
Ford money + 50,000  
from that -  
from gold payments~~

Disc Payroll - 4046 Moore & Co. -  
 475<sup>00</sup> P. 1000 -  
 4521

1500 daily	30 cents
2000	22.6
2500	18.
3000	15
3500	12.9
4000	11.5

Talent	15.00	16.1
	2.00	12.10
	3.00	8.10
	4.00	6.00.

Phenol heated with oxalic acid  
 changes to a dye stuff ~~which~~  
 oxidation - ~~Acid~~ - is Roadie ~~and~~  
 my ~~permanence~~ K - chromic acid  
 in ~~Vermont~~

My ~~Chlorine~~ from a Dyg

My ~~Chlorine~~ -

Rec of dilute HNO<sub>3</sub> ~~and~~ ~~and~~  
 on H<sub>2</sub>O ~~with~~ ~~and~~ ~~and~~ ~~and~~  
 was ~~planned~~ ~~to~~ ~~be~~ ~~at~~ ~~the~~ ~~top~~  
 of a ~~well~~ ~~in~~ ~~the~~ ~~mountain~~

Adverse Dubious Music

My ~~Supra~~ ~~chloride~~ ~~as~~  
~~order~~ ~~in~~ ~~Vermont~~ ~~for~~  
~~extra~~ -

Little, waxes all the  
Amulim Co. with  
Ammonia to get  
bases - A test,

dry 6/4 on amulim -  
alcohols out  
dry 1/2 lb.  $\text{H}_2\text{O}_2$  on amulim to  
wax the part, highest temp oil -  
wax Coralline yellow  
with an acid get  
Oxyne - collects an  
acid

has Tozi a disc reaction

For wiping plates to leave a  
scum - Castor oil

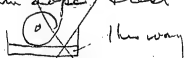
Danolin  
Cylinder oil  
Oil Cade  
Cod Liver oil  
Sesame oil  
Peanut oil  
Gurjun balsam Viscous oil  
Caramel  
Copal

also dry sol water not alcohol

Blue (Ethyline)  
Melting glass  
Diphosphorus Orange  
Melting orange  
Red Chrysochrome

The plates could be dipped  
using a little in a vial  
Bakomat,

Dye water dye removed  
in thin film above sheet  
water -



also, absolute alcohol 8 to 1

also acetylcellulose

Warm a record & play  
while warm -

Brush saw with fraction  
in alcohol, ditto Benzol  
also Benzol ~~with~~ with  
Oxetone,

Take up with  $C_2H_5OH$   
Distilled absolute  
alcohol -  
get price down

fundamental vacuum subm.  
absolute alcohol to  
put in a slope dip to hold  
graphite or Rosin

Cool. Vac apparatus for white  
Mushroom, a room a box for  
each or water jacket -  
Dry the air  $CaCl_2$  -

Look in Micro floated a  
heavy graphite - also  
try a little of float bath  
small test also note  
if Grade flake finer or  
coarser than pure -

Worked on water Dye  
acetylates - play once  
a day see if rest between  
helps -

Seemingly one belt on 80  
abandoned by machine

Red pen. got 2 doz balls  
they use for No 92 +  
req up for stretch test.

Take land surface  
10 kg. round, 10 kg. palm  
abt same wt. of coal  
weight 4 then again palm  
to permit of men + keep  
on -

Among waste at 10 kg  
round (10 kg) was 6 and  
of round (10 kg) was  
+ palm. - got old  
Remain to 10 kg on  
Hq. req -

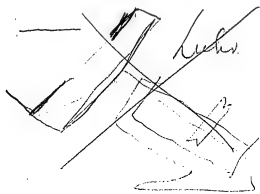
Pyffman Dup 678 with  
15% Pentol + 2 para

Pyffman always  
about labels - ~~10~~  
no to pyffman + other forms  
all be in notes -

When get the acc  
to 10 kg. about  
Cylinder and round  
644 sending out

Notes (10 kg) ago

3 Each of dt stands  
at blue table had  
lost records.



Moore use glycerium  
 Lac of Celluloid -  
 to prevent from warping

Glycerium  
 Use coat & (coated)  
 Rings to ground second  
~~brush~~ they finish hour  
 brush

Hoffman hatch woods  
 1/3 chalk  
 also - ~~in black~~ 1/3 spermin

Hoffman Chalk only 3/101 wood.

Moore - Graphite & condense  
 sections of plates -

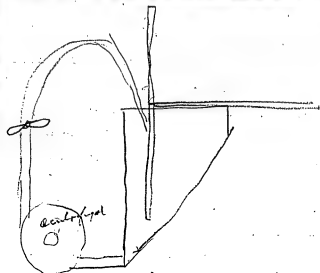
Dunville - Make a  
 friction light scale  
 to test friction of  
 transmission -

Sent to Ford the  
 Tech book on  
 Cost Trucking

Wash glass  $\frac{1}{2}$  inch  $\frac{1}{2}$  dia  
transfer buffed & Edged  
Coat with 2% sol  
KOH, & then wash  
see if non homogeneous  
also run over with  
a Ripper to bring out  
defects

If polishing rest would  
would turn out OK  
Detail a Ripper Wash  
& make 3 Substrate  
Substrate cellulose  
prints to see impression of  
in surface

Get some Electrochrom  
to polish disc master



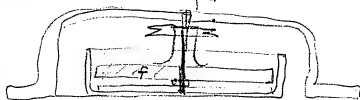
water or Kerosene loaded  
with powder for polishing  
disc master

Wet top of Kerosene  $\frac{1}{2}$  inch  
21% Kerosene & dry in then  
transfer - if OK - make  
a chalk cresal blank &  
transfer this Kerosene  
or chalk veneer on  
powder to blank

~~Re-use half an ounce.~~

possibly brush should go at  
slight angle to mould or re-pressed

Use powdered W Va lime  
for polishing -



if blades rotating  $\frac{1}{32}$ "  
iron record needles & light  
wearing records in heavy  
Kerosene machine

Your look up by all  
Peanut oil of saw  
use thick in oil  
wax - ~~Open hand use~~  
small or yellow 18

~~Batch about.~~

~~Auto stop -~~

~~want record one~~

~~Powder for polishing  
Kieselguhr - Tripoli  
Prep. chalk & levigated chalk  
fine tooth~~

~~oxide tin - Rotten.~~

~~Stone Carb Magnesia~~

~~Whiting Gully abras~~

~~Copros Spanish white~~

Woods teal teal

gulls to saws 2

big Reen oil record

Such -



The Roughly Mexican of  
vehicle I heard to  
ground at 12 km -  
of heat some more  
with ~~profits~~ or also  
Meyfarms →

Moore. Note Run only  
in Columbia - think it  
blocks evidence pulled  
off Columbia -

Copy sent to Hayes  
Meaning about flacker  
Same date about getting  
Terri Lynd, that got footnotes  
numbers, together

See if Para will  
Combine with formaldehyde  
in water ~~etc.~~  
Evap ~~of tank~~

Howler. Why bond you  
get compressed ~~the general~~  
foundations of an

See ~~how~~ ~~you~~ ~~understand~~  
my ~~book~~ ~~basic~~ ~~ignition~~  
and ~~my~~ ~~ideas~~ ~~of~~ ~~them~~  
the ~~role~~ ~~in~~ ~~etc.~~

Moore let me hear surface on  
1/2 doz #10 bad Yumuck  
also print from No 5  
on transfer made with only  
top plates in rack in oven  
& some from middle plates  
Don't look for RO - if works  
good try ~~1~~ 1 2 3 & 4  
of the 12 series -

2 = Run through doz rack  
twice & doz 3 times -  
shifting plates each time  
in rack - don't  
let me look for RO  
else No 5 or any of  
the 12 specials

3 Listen to that time & heard  
le of rough after grinding  
M. Silver with a bit of  
glycerine -

4 - Collect 6 with no RO & 6  
with note if more side movement  
on RO disc, they may shrink  
dif when pressure taken off -

5 Look at tracehead specimen  
from the special 12 that  
has the correct RO & see if  
can see it -

6 get doz. Brass or white  
wood discs made &  
transfer on them & print  
see surface & RO

Doak a Record in hot  
alcohol till fingers  
can be separated from  
blank

Moore what was % quad  
transfers from Louger  
a very small hole 9" x 7"  
4" x 4" prints - also  
to mild like hair  
surf. acc. from a dog  
Might print 105-2  
one of the 2 x 12  
traced to prints of  
them

When you get accept  
Print on hand - use 3%  
2 para quad alab. al.  
acc. of RO don't demurk

Polish a. Run oil  
~~black~~ Record see  
if RO disappear  
May be ref in  
friction -

Try the test with Methyl  
Chalk + Cresal resin in  
alcohol on face blank  
+ bake - transfer -  
try Lamp black also

Moore -  
Dog prints, the transfers  
which have been rubbed  
with glycerol soap  
test for surface film  
oils - 1/2 wiped by  
1/2 nat.

After Carby reaction has  
Run all day - look at  
Wky m + then have  
it mounted + prints  
taken acc. to it  
sounds - see below  
another see macrophoto

Moore what about the  
35 & 30 ~~to be~~ ~~to be~~  
transfer plates + transfer  
+ 6 Cams

How about prints from the  
baked transfers I want  
hear them

Put right amount of Para  
in the Croxymethylene Varnish  
Haffin made + have  
Dally flow it + run  
through oven

Moore to have girls  
pick out some good  
RO + note how  
Reprint + see if they  
are there just the same

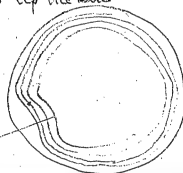
Amend some bad run  
out records at 175 deg  
+ then see if there there.

Moore - Has about the Exp  
of Control 15 min instead  
of 7 + prints to be C surface  
+ Run into  
if shows anything try 30  
minutes.

Moore theory chilled  
stress when released  
springs out at round  
ball runs to one side  
+ up the side

Stress  
step

hair



Test on  
the 17  
Tracked  
ones

6103

for copying celluloid  
prevent stretching. Citric acid  
in water.  
Aniline acetate thick ad  
sol water  
Dichlorohydrin Sol water ad  
Ethyl Citrate - "  
Ethylene chlorohydrin " thick ad  
Glycol Sol water  
Monochlorohydrin "

~~Laminating of film &  
using the Hoffman  
Bakfurner process.~~

1000 left out blank powder  
to make 2 brands. Form  
150 150 of 60 mesh  
Hoffman make to make  
4 layers transfer a  
print to each blank  
Veneer it by sifting on mount

See what we were  
screamed wood shales thru  
face of it went just coarse

See Jones about getting  
in new penum yellow  
Molor in Ford box also  
flex drive between Molor  
penum

Halpin where are the  
Record tests -

Nehor Halpin to get  
black out 1/2 lead  
scarlet & lead before Record  
for general test will slip  
tinder

Five Molor to the gauge  
for test

Mudd - Make 3 wand disc.  
See previous wand trial misses  
Considerable - speak one  
in Central Room (Mudd)  
with all other work -  
transfer

See Hoffman - Let him make  
some chalk with Original  
Rev. in 4 Grey like wood  
feels - or mix - make  
2 or 3 discs all of chalk  
2 or 3 various chalks  
slow, then some mixed  
25% 50% 75% chalk  
with Reg. powder -  
Make blanks & transfer

Make 3 blank plain  
& 3 Reverse Red  
Chalk in -

Wilson - I am not kept  
posted on Road show  
receipts - should get it every  
week.

Moore - Let me know the  
double Constitute  
transfer with chalk  
between -

Flow 50 55 + 60 cc  
transfer a permit want  
near surface - track  
blank records in

Point blank  
Red chalk in - then very  
thick in case, make

Try partly fill up voids in  
surface of blank  
try small Paris, some  
Cement,

Hoffman make few blank  
svences with highly calcined  
fine-grained paper.

Give adit to Maxwell

Moore Talk out  
12 transfers looking  
only when pressure is  
off

Moore if D. H. has had  
for a longer supply  
new numbers in  
not make more Dup  
records

Moore. Repress w/ transfers  
press Reg schedule, Blank  
with transfer paper each  
side, to prevent sticking -  
& then transfers out -  
There will be no further  
distortion of material &  
the surface will be  
smoother -

Get some of the  
with new, some  
runs for disc

Moore press powder  
blank Cold all papers  
will stick but use with  
powder 5% of Dry clay  
bake if it wont Galed  
transfers without sticking

See if a second ~~Kested~~  
above 200 will gradually  
obliterate

Moore use paper and various  
blanks at highest pressures  
possible thru ~~transfer~~ as  
print tag up if OK -

Find out ~~why~~ of Cassin  
is getting better

W. Lams, please keep account  
of value of dark specimens  
of all kinds to ~~examine~~  
on our collections

Do you get ~~and~~ Robin Gray

Kammuloff - James  
Richardson check them  
up only 1 specimen note  
Have them paper glo

Ask Howard if ~~Ches~~ Lees  
needs a ~~W. Lams~~ paper  
with Carbon film -

W. L. A. Refractorials reading  
through all ingredients

W. L. A.  
Some of your records are  
not filled & weak

Put five sheets of thin paper  
between 1st & 500 and

Transfer - ditto get

Blanket front transfer  
or then between 1st & 2 transfer  
also only get blanket  
but think



See how along paper  
leads to ~~decomposition~~  
blow

Reg up to precip + dry  
40 lbs 20% B<sub>2</sub>O<sub>3</sub>

MnO<sub>2</sub> + 20%  
Cells

1st 2 parts in ~~one~~ <sup>2</sup>/<sub>2</sub> gram each  
of following - Reg. 100g  
1/2 gm NaOH, 1/2 gm Caesium  
+ Rhodium, 1 gm  
Magnesium OH, 1/2 gm Strontium OH  
1/2 gm PbO<sub>2</sub>, 1/2 Ca, Ba Sr

Next 2 cells -

1/2 gm each - MnO<sub>2</sub>, CeO<sub>2</sub>,  
CrO<sub>3</sub>, Co, Cu, Ba, Mo  
4g, 5g, 3g

Note perhaps dry PbO<sub>2</sub>, try 100 gm  
in B<sub>2</sub>O<sub>3</sub> if can get it in - or no matter  
suitable + make ~~cell~~ <sup>cell</sup> ~~blowing~~ <sup>blowing</sup> ~~at~~ <sup>at</sup> ~~100g~~

Notes Key - (Benz is acid), 3 antacid Cl paper  
Zinc + K<sub>2</sub> platinum - 1st, 5/1

Another 2

Ti Wo W Sb As

Another 2 S, Te Se B+K  
KCl, H, Phos Na Zr Boron.

possibly may increase the  
quantity of each + have less in  
each cell - Idea is to  
get catalytic -  
Nedidum, Barium, Silver  
Iridium, Cobalt, other rare  
in another 2 cells

dry the acid from all quit  
from another sets, use 20%  
ammonia Reg. 100g

Look up Catalytic  
Sand potassium manganate  
for cell -

We know apart from Goat  
upward Chop report or  
last one by plates  
or lesser dimensions &  
we will guide map  
of US a find out where  
to go for ~~business~~

Put a muck on  
making paper pulp  
flavored from cheap

Atomizer. Bean &  
dry paper pulp  
& Katalin muck  
greased or aluminum  
standard paper checks  
then press for a funnel  
for ~~plum~~

Can double the angle  
of 6" pencil by splitting  
& cutting right & left  
more quiet

Wit fibers Resinade soda  
damp - then wet  
with Ethylene Calcium

Wet & press & dry  
Makes Resinate Calcium  
not malleable but  
softens -

Smiths - Requiring Iron  
dry plate & dip in  
Cott in KOK, little Tarham  
for hours then put no  
cell or add little  
KOK in Tarham Sol to  
cell also by some  
Theresa Brownell ~~pat~~

Did Eric Miller soon pay for his phone.

Branville Cell perhaps B<sub>1</sub> causes more absorption of OH, should be 240 gms KOH to equal last cell. Try 120 on B<sub>4</sub> or on much cheaper in, change + add more H<sub>2</sub>O on till get cell. Can in - + if can't get good results, make alkaline KOH B<sub>1</sub> gives so much out of cell every 6 or 8 days of alkali enough for the but not enough for B<sub>1</sub> - Can add excess of cuprous OH, up to 300 gms for B<sub>1</sub> if its absorbed by B<sub>1</sub> - must be B<sub>1</sub> OH absorbs alkali in gasses it out on change or the reverse.

Rec of Nitrocell B<sub>1</sub> + Sulfuric. No. will go together.

Cost of Run of Phosphorus 875 lbs

1000 lbs Phosphorus 7 1/2 c 72.50  
600 " Formic acid 8 1/2 c 51.00  
12 hours labor on 20c 2.40

144 Cents lb. 125.90

~~26.6 Reg 6/4~~

~~10% H<sub>2</sub>O~~

~~15~~

~~25~~

~~50~~

~~26.6 Reg 6/4~~

~~10% Rosen~~

~~5~~

~~25~~

~~50~~

of base 5/64 cost in 17 cents

4/101 - 34.70

3/101 3.68

3/101 4.10

~~Transfers in a Ring laminator  
pressure heat press without  
ring -~~

~~Charcoal + Raw fibers  
75% Charcoal 25%  
Raw fibers -~~

~~Ditto 75 Charcoal +  
25% Reg fibers without  
6/4 -~~

~~Fred all varuf 2 7/5 183  
Fred all - 7/4 of  
7 6/4 volium long Come!  
them -~~

Dehydrated Resin  
No Para No Para  
3% 6/4 5% 6/4

Ditto with 4% Para  
2 para -

Run Dally 6 hour  
with Dehydrated Res  
Va 180.

Charcoal keep on  
Charcoal dish  
to get good edge  
Fred all start chiller  
Mill on charcoal

Plaster Paris, Resin  
Cement, dry out &  
press,  
Charcoal Cowhairs  
flesh -

~~Ulvori - Flat Charcoal  
lighter pressure~~

~~2 min No Contact  
then Reg schedule~~

~~Ask Wilson for  
balance letter  
or need from Eos Post  
Shot & Cost eval~~

~~Luchs Handout  
bromals in  
amberloc 8 & 10~~

~~See if Aulick was  
written to Pillsbury  
in Re Miner fund  
Canton Belmont~~

~~Dimondium Insulated  
chasing a funnel long &  
on perfectly flat glass  
& heat glass by elec  
to melt surface only &  
chill -~~

~~Space Between  
hurry 3/16 filling  
under 2 1/2 foot~~



~~Luchs funnel  
3" to 24" diam  
1/2 dia~~

show Demondie, Bureau  
standards for 5.000 plates  
put much on sound  
absorption. Get make  
the measuring instrument.

Does all the heavy work  
750 Henschel & Co  
a lot of the organs  
=

Drugs & chemicals necessary  
procedure in the office  
while running  
with 5.000 plates  
for the day of the  
the

Like Carl we put worms  
down for on a cardboard  
got up new worms down  
Meyer the day of the

Rec to help (Elder Ford  
or Billy Gray) just  
Cople motions right off  
by Ex.

Demondie - see if they  
do not send the  
Cop without Government  
sending profiles unless  
they help to.

Graves ground oneself  
four inches long  
Moulds & blocks  
print of double leaf  
3 or 4. When use it  
on 3 or 4. 5% black  
fine ground rough press

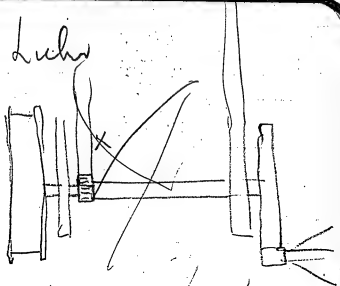
fred still <sup>uses</sup> ~~as a~~  
celluloid on ~~a~~ fine  
ground ~~5/16~~ ~~ink~~  
etc of ~~strip~~

Grinding ~~iron~~ ~~mix~~  
Catch fine ~~powder~~ in  
Chillian Mill

Hellman ~~nickel~~ ~~100~~ ~~plate~~  
4 1/2 ~~Telochlorophyllin~~  
2 1/2 ~~Paraphenylenediamine~~

Also 4% ~~Itra~~ ~~Map~~ ~~only~~  
Steel on fine ~~ground~~ ~~6/4~~ ~~5 1/2~~  
Blame

Luhs



also why not cut ~~x~~  
gear smaller to allow of  
1/4 shaft as above  
turning down if necessary  
to 3/16 for powder

fred still put 3 or 4 lbs  
of 719 powder Chillian  
Mill or equivalent  
as possible ground till  
good as 2 hour samples

Billy Gray Telegraph

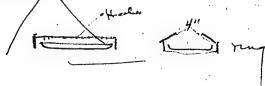
Generator is 3 amp 1000 Rev  
Consumes 10 mule hours  
5 amp on full load 1275  
8 amp at 1800 making  
ground of Coarse (a day)

Apples Telegram

Dynamo 5 amp 1000 Rev  
self Regulating type doesn't  
Exceed 6 1/2 amp at  
any speed -

Daily  
Have 2 doz Ryms used  
placed around the  
V near plant to keep  
atmosphere clear of  
slip running and  
1/2 doz covers with

Daily  
Washes top 1/2 hole 1/2  
Closed



Low 60% for blacked  
flashed ~~peroxide~~ peroxide  
Manganese Magnesium  
oxide

Belt 40 3/4" ~~Washes belt~~  
23.5" ~~for belt~~

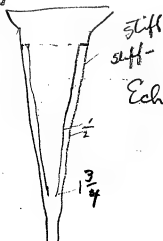
Break up some Sulphur  
pulp paper

Watch  
Hatch test trays  
in laboratory RR test  
tump

(125)



Lute



Echo fanned.

Huffman Moore 719  
 $3\frac{1}{2}$  to 1 also Btd 1

Try Varnish with no  
 $6/4$  in then  $26.6$   
put  $1\frac{1}{2}$  of Resin  $2\%$   
 $6.13\%$   $4\frac{1}{2}$  in  $4$  level  
but small plates use  
no penula, for P. area

Moore 4 Kramer 719  
Req. dia. then Edge  $1/8$   
small -

Edge  $1/16$  small, put ring  
around a  $1/16$  then  
remove -  $1/16$   
ditto  $1/16$

Moore when are the  
 $60$  &  $90$   $1/16$   $1/16$  on  
719 -

Moore & Griffin Measure  
up some when would  
for thickness & for  
flatness - perhaps  
three not but Central  
at Edge -

perhaps 14 men too  
much handling of boxes  
so don't flop on permit

Smith - take one of  
the new 10' Cables and  
assemble with double  
the wires



big pockets, think

Dally test you  
Collaboration on plate  
if does vehicle you  
have water in it &  
in person - know should  
be cold & for moisture

have no ~~planned~~ new  
way ~~go~~ -

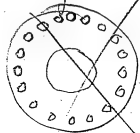
Kummhaff

Walter ~~closets~~ new plant

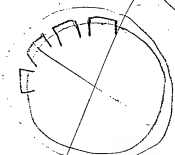
Take No. 4 Cables in H  
plant near hole only  
hard to clean -  
why just ~~run~~ cables at  
Reid's & others at H  
plant, 'B'd one down  
that way for amount of  
room -



~~Pulleys for~~



~~Cork mats~~



~~Moore fix up / stronger  
mush to get stuck  
records off / without  
full out / Blank is  
hard wire / screw make  
it power / gel -~~

~~Moore Set  
Double transform  
for C... ..  
hydrogen -~~

~~Had all tube battery  
run over to Center Reef Co.  
see if they can coat it  
with 1/2" hard Rubber  
also use Rubber 2/3" or  
near to a long -~~

Dobson

~~gives order put on  
make this then suddenly  
I say stop =  
Gave order put on the way  
then found he had 1100  
in stock,~~

~~212 crates to transfer  
1000 lbs - no gas -~~

~~Moore slow 500 plates  
+ wipe edge to stop  
Clutch a few running  
up hill -~~

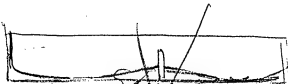
See if new blanks porous  
paint slightly in front  
baking with high  
viscosity. Reg Varnish

Make 50 blanks (new)  
in oven with Reg plate  
then transfer at 5 lbs  
pressure. 3/4 min Contact  
7 min 500 lbs/area  
5 lbs steam in 225° Fahr  
Everything will then not  
go below 225° - no gas  
I use reg new blank with  
plate ~~to~~ 225° Fahr 5 lbs  
steam. No contact but not at  
2000 lbs/min steam on  
Note direction of sharp  
end of bands -

~~ditto release  
pressure  
over~~

~~200 Reg plates with  
6% Paula 3 Para  
ditto 8% Paula 3 para  
to stop birds. lessen  
Sentryparacis - strips  
Edwards -~~

Transfer new blank  
 12 flat veneer plates  
 little, 12 more varnish at center  
 less at Edg<sup>s</sup> -



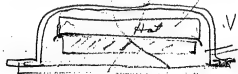
Moore

Allow moisture to shake  
 into center @ shake  
 even

Contact 5 min <sup>set press way down</sup> - Cool  
 then <sup>bring up by inches</sup> heat 3. Contact  
 then 5 High at 800

1st operation causes  
 Veneer to leave plate  
 Perhaps on 2<sup>nd</sup> schedule  
 it will not require stick

Drumrolls



2400 300 kg  
 Vac

Vac strip veneer

lay plate on steam plate lab  
 over it lay new blank +  
 put plate over + weights  
 180 lbs - 20 min long temp  
 lay it - find all or Daily  
 do it

Wilson - watch order  
 for Cambridge Machine +  
 Atlas schedule to suit  
 + keep pay roll down

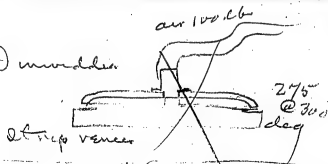
Leah



20/1000 steel

(135)

Dumblers



New idea - ~~Delic plates~~  
7 min. contact  
7 min. run up to 700 & 3000 psi  
to 800, then 3 min. back  
to Contact & Cool.

~~ditto~~  
ditto of Contact run up to 800  
& instantly Cool keeping  
pressure on.

Schedule - ~~same~~ paper face  
of Veneer to take all hard  
shell - then 3 min. cool at  
800 - Cool.

put 1000 psi of metal  
over whole plate 5/8" x 11"  
press to Contact of min  
cool 1 min. then back up  
Contact also back Cool  
~~also~~ also use back  
plate baked in 0.5 hr

ditto. 3 min Contact. 800 keep  
see if it requires plates -

ditto with baked plates  
baked in Veneer plates over

~~Meadocraft~~ - get all  
the formula & information  
together like V Miller is  
getting - For Condensate  
Rem. Refs - Vacuum, &  
whole process,  
also use the recording box  
by ~~vacuum~~ back & rods to  
fit when ~~vacuum~~ come

ditto ~~to~~ ~~the~~ ~~same~~

Blue compound -  
flaming Cup & Disc  
moulds - pressure  
baking etc use hoses

Daily Experiment to get less Var  
villed part by cleaning soft  
Var from 2 logs, and need 2 for Red

Moore: Why not have some  
plates 100 - flattened, -  
possibly can animal,

Wilson - How do representatives  
in Boston Phila, St. Louis -  
Norham, Atlanta, Pittsburgh  
Delaware, Clarksburg, Case  
& steering them with  
big led & follow with  
small ones using Daily  
like Chicago -

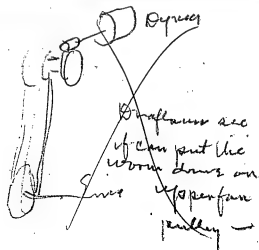
Moore, What spal plates  
have you on hand? I had a  
lot made spal's or sawd  
got Numbsh from Huffen  
& had on new blank  
Especially new Paula's Pass  
Should be up new plates

Daily  
see my book where someone &  
other things not get alcohol  
used wipe plate with soap  
adhesion - I make lot of  
plates then treated  
think Seems & Deane oil  
but in Daily make

Daily with  
Amalgamate 2 plates flow  
& test.

Walter Miller - who were  
chorus in "Call me your  
Darling again" good

Dumondie - Wally would  
full Chaps had 4 pour plates  
P. hand built & new turned  
upward - leaves PP in clamp hole



See Wilson & have a  
style what has to do -

Moore, Daily schedule  
225 - did not make it  
what was situation  
& if OK we would  
do it again & see on  
new 6 banks & 2 part 1

~~Hayes Reeds Sun & pick all  
times we want get a crit  
needed~~

10 lbs steam  
6# heat & run, plates all  
down - run up fast as  
possible to 300 lbs ~~pressure~~  
moment gauge shows 5  
let it down - so all  
pressure & steam turned off  
then cool

Get from W.C. Cheung  
Cost of adobe, National pulp  
& Daily papers & ink  
Babson's Long

Economy many reductions  
Cost man make report



~~Hoffman Make some  
1 to 1 with Reg/amount  
of Varnish off +  
4. make blades print  
direct without using  
transfers - Experiment.~~

~~The cause of bugs on  
short schedule is vncer  
not bound all over  
Red inside on cooling  
Bound vncer pulls away  
from unsecured~~

~~Best remedy is proper  
Scraping in to rid & link  
so vncer secured all  
over~~



~~On hand~~

<del>Reg</del>	<del>632</del>	<del>=</del>	<del>Baked</del>	<del>160°</del>
"	"	"	60 cc	
"	"	"	200 "	
"	"	"	260 "	
"	"	"	700 cc	
"	"	"	90 cc	
722	-	Reg with 1/4 Zn chloride		
678	-	2 Para 10 Penta. - 8.4 6/4		
737	2	Para 12 " 5 1/4 - Rem <sup>3000</sup> <sub>1000</sub>		
736	2	" 4 6 1/4 "		
735	2	" 4 5.5 1/4 "		
734	2	" 4 5 1/4 "		

~~Lesson - Practice of Taking  
from 1 dept to another is  
bad piece work alternate  
rather low break in a year  
she goes to another dept &  
we lose the breaking in it  
Complete -~~

Compressed air chips  
Cleaner for Washers  
1 for Europe 1 for Miller  
1 Here - New one. Discovered  
is working -

Wilson - Abt getting a  
C. Enclosed idgt. to start  
A class - ~~new~~  
+ Economy in run for factory

Schedule Making of tanks

Heat Exchanger 3

Try 12 50 pressure  
+ 10 min. on  
+ 10 min.

Also 3 contact  
500 for 5 min -

broken to surface of small  
transformer -

Print 10 min at 600 lbs

Print 20 min at 55

acc. of my last Denver record  
now copying out previous year

acc. of my last Denver record  
now copying out previous year

Look at label of 10 lbs. More  
all of powder fine enough

Return to Denver 10 lbs. powder

Print 10 min at 600 lbs

Print 10 min at 600 lbs

acc. of Denver record more  
now copying out previous year

Try Daily of 10 lbs. powder

at 55 schedule

Try Daily of 10 lbs. powder

at 55 schedule

Try Double transformer on new

label 55 schedule

Try surface on 55 with hoar  
up & down to change angle of  
recorder lens to size of  
lip in Semite - make platen  
of zinc & steel in diam. room -

Diminish if high density will in  
new tape make work a little  
So not too much (make side  
even with 600) mostly want  
it to be 600 or 600

Make 600 blank all  
power thru 180 mesh 50 inch  
of mesh - to get out

Try getting rid of X-ray in  
tape on 55

Try getting rid of X-ray on stopped  
Venus on penitence -

Try Double transfer on 55  
using a stopped Venus  
& one, let on Venus plate,

<sup>cellulose acetate blank</sup>  
Try ~~cellulose acetate~~ & stopped  
Venus, prevent down stairs  
on tracked mixer &

Hoffman ~~make~~ 5 to 1  
+ 6 to 1, 6/4 strokes -  
softer - screen well -

Look at Diminish tracked  
Loud blank - in the Venus

Print stopped Venus  
room at 600, sunset 6/7 in

Try ~~stopped~~ X-ray -

Double transfer may 1/2  
thick 1/32 inch & raise  
angle of screen in Venus line  
& screen acetate -

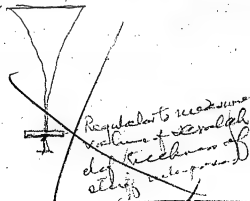
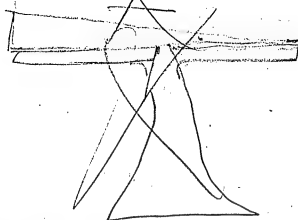
See how flat 55 records  
are & thickness compared  
with Reg & if Venus angle  
Rods change

Perhaps change of angle  
of Pirella level or one of our  
General trouble if found  
so - can transfer new blank -

Diminish Rents and your  
Revolving too slow in bath

Make Blank upstairs 2200 -

Wilson - Report of  
Re at station that side  
for 3 60 2000 -

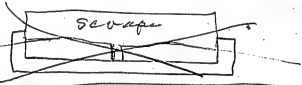


Let's how is ~~the~~ ~~model~~  
Coming on new model

Have got last music  
Residuals song  
like ~~direct~~ along even last  
~~Call me for~~ ~~Becker~~ ~~for~~ ~~again~~  
Call me for ~~Becker~~ ~~again~~

Whisper Dubway  
Nuzpa

Performance of  
Pam + 6/4 5/2 in  
pavides, perhaps can refer



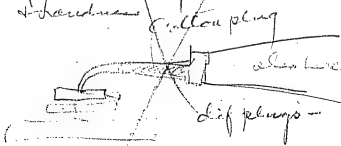
~~Moore start report  
on new blank see how  
many times it keeps  
open~~

~~Lick turn up a  
sample core  
for idles + go to  
Newark get price  
per 1000 1/16 more  
die to allow for  
finish - only  
best core like  
sample~~

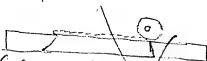
~~Legit test + Wheel about  
Miners dump  
+ Victor Register on our  
mine~~

~~Find the formula for  
the Candalaria disc  
+ samples of can  
to talk via Candalaria  
best to work with -  
Start Candalaria  
+ 2 Ott. making  
Cylinder records for  
Pierum to test  
Low oil viscosity  
but + separating waste  
+ drilling off  
Especially Candalaria~~

Try get putt Cathon inside  
 @ speaker & test for acoustical  
 characteristics



Paint over 719 blank with high  
 viscosity 5% 6/4 varnish & bake  
 trace off set.



White second set back layer  
 1/16 inch gap roll r.c.c.  
 cover second section  
 then & cover up next rows  
 etc

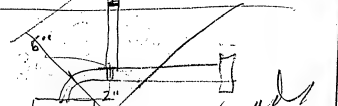
~~Hoff~~  
~~trans~~  
~~...~~

~~2 1/2~~  
~~...~~  
~~...~~

~~Hoff 98%~~  
~~Transfer 85%~~  
~~Print 90%~~  
~~Test 85%~~

~~27~~  
~~27~~  
~~28~~  
 Net 1000  
 to shipping

~~Wilson Double - 2 to 1~~  
~~3 to 1~~  
 also ...



~~Weld~~  
 hubs make these with  
 piston Disc

~~Double Lay out~~  
~~run as percent~~  
~~for buffer 6" below~~

~~Premium Rig up gears on  
cylinders inside 1 1/2 threads  
& these Disc recorders &  
track deep enough to make  
a razor edge side walls to  
test new recording wax~~

~~Heat record - say tracked  
blank up to 200 & run  
reprints over it see if  
great pressure of ball  
dent iron down surface~~

~~Give Latham the heavy  
liquids for mixing  
Xenon - 1/2 inch K & H  
Bar 1/4 Hg~~

~~Hard have you ordered  
celluloid discs -~~

~~to make a better weld  
think should use 1 1/2  
Puro + a little Penton  
in blank -~~

~~Silver Lake Well 15 to  
25 ft deep - Water -~~

~~Smith Take a Bi cell &  
assemble with twice the  
amount of H<sub>2</sub>O -~~

~~|||||~~ Larger Can

~~gall - Why not have a  
speed index like  
Milly has on his  
recorder why not  
also how about self  
winder~~

Beam with possibly Bi  
big Cells needs times as  
much  $\gamma$  as Bi because Bi may  
not be saturated by the lower  
voltage of the same amount of  
 $\gamma$  in big cell but is by the  
2  $\gamma$  in small lead cell -

The Bi ~~over-saturation~~ goes  
involutes ~~involutes~~ a net  
work conductor - This is  
probably true of Cobalt  
& 20% Cobalt with plenty  
not ~~to~~ ~~showed~~ ~~the~~  
same thing. It acting as  
Conductor till all Ni  
is reduced. This is proven  
by high results in dipping  
Cone Chl Co.

Try ~~20%~~ A4 with double  
vires or dip tubes in hot  
Cone Cobalt Chl & process  
by Kott's book with Chl

Use new tubes never wet  
& soak 24 hours

See how much Cobalt of  
we have & if million get any  
weight 10 or 15 lbs. if not  
order it



Transfer Press	20
2 Contact	
1 low pressure	
5 High press	24
Cool	13.2

12	100	83.5	
	95		
	5		
6000		4350	
4000		20	
		2400	

11	9.	1350
		270
		1085
		5400

1050	1080
54	540
1026	540
5	432
5130	5400
1	583
1026	
54	
97	

125	125
<del>125</del>	3
	375
1.4	
3	
4.2	
970	
833	
12	
1666	
833	
99	
970	
85	
85	
240	
6	
240	
109	

4 20  
3.75  
- .45  
5

25 1320  
125

7

8 Presses

4 Steam

8 Cooling

3 minutes per unit

15 - 40

$\frac{110}{550}$   
550

$\frac{80}{640}$   
640

$\frac{128}{640}$   
768

$\frac{180}{1080}$   
1080

$\frac{110}{110}$   
110  
 $\frac{170}{110}$   
110  
 $\frac{170}{110}$   
110

3600

$\frac{110}{3600}$   
66000  
 $\frac{370}{396000}$

$$\begin{array}{r} 4000 \overline{) 4521} \quad (11.3) \\ \underline{4000} \\ 521 \\ \underline{4000} \\ 1210 \\ \underline{1210} \\ 0 \end{array}$$

10 to 6-25

16000  $\frac{1500}{800}$

1600 1000

8000

$$8 \text{ grams} - \frac{160 - 1350}{1980} \left( \frac{8}{8} \right)$$

$$60 - 1.9 \text{ mm}$$

$$\frac{60}{8}$$

$$\begin{array}{r} 483 \\ \underline{48} \\ 104 \\ \underline{635} 50 \end{array}$$

$$\begin{array}{r} 21 \\ \underline{22} \\ 213 \\ \underline{226} \\ 4 \\ \underline{46} 600 \\ 500000 \\ \underline{500000} \\ 0 \end{array}$$

$$\begin{array}{r} 6230 \\ \underline{40} \\ 506 \\ \underline{85} \\ 293 \\ \underline{293} \\ 0 \end{array}$$

$$\begin{array}{r} 404 \\ \underline{404} \\ 0 \\ \underline{124} \\ 185 \\ \underline{185} \\ 0 \end{array}$$

$$\begin{array}{r} 11510 \\ \underline{1170} \\ 3 \\ \underline{483} 21 \end{array}$$

$$\begin{array}{r} 45 \\ \underline{72} \\ 110 \\ \underline{110} \\ 0 \\ \underline{170} \\ 1650 \end{array}$$

$$\begin{array}{r} 260 \\ \underline{104} \\ 10400 \end{array}$$

$$\begin{array}{r} 75 \\ \underline{15} \\ 150 \\ \underline{150} \\ 0 \end{array}$$

$$\begin{array}{r} 75 \\ \underline{30} \\ 225 \end{array}$$

**Notebook Series -- Pocket Notebooks**  
**Notebook, PN-13-12-05**

The dated entries in this pocket notebook are from December 1913 and January-March 1914. Some of the entries were made at Edison's winter home in Fort Myers, Florida. The book was used to record ideas about business matters, experiments to be tried, and other tasks to be performed. Some of the items have been crossed out. Included are technical notes relating to disc record blanks, film developing machines, electromotographs, and batteries. The business-related entries include notes and calculations on phonograph and record sales, production numbers for records, phonograph demonstrators, advertising for phonographs and kinetophones, a new kinetophone plant, and copyrights for disc recordings. Also included are statistics on orders for discs, along with notes on musical selections and recording artists.

Among the numerous Edison employees mentioned in the book are Carl H. Wilson, vice president and general manager of Thomas A. Edison, Inc.; William Maxwell, second vice president and head of the Phonograph Dept.; Walter H. Miller, head of the Recording Dept.; Harold H. Smith, chief of the Battery Research Dept.; and Sherwood T. (Sam) Moore, one of Edison's principal assistants in the development of disc records. The flyleaf is inscribed "Ent final April 28 1919." The pages are unnumbered. Approximately 125 pages have been used.

PN-13-12-05  
E-1710

Ent final  
April 28 1919

★2998  
1/5  
20

Dec 5 1913

Goal why not have speed  
index like Miller had on his  
recording mach. -

Silver Lake ~~etc~~ Kaminhoff

How about Little Point  
Point in 5/8 6/4 7/19 blank  
to increase flow

Heat tracked record (Condensite)  
to 200 that has cracks  
acc if ironed down

10000 Records Net

Hoffman	27	Presses	90% good
Transfer	27	"	85%
Print	18	"	90%
Treat room			85%

Leaving 7 Extra presses


Try ~~Experiment~~ Cotton etc  
in ~~Experiment~~ of disc

Paint over ~~1/19~~ blank  
with high viscosity Varnish  
bake & transfer

Get sample roller Cork  
& have ~~brushy~~ get  
~~sample pieces~~

Jones to try ~~them~~  
X roller ~~set~~

Luther ~~like~~ is ~~Amberala~~  
X worn ~~model~~  
Coming on

 of thickness of felt  
measures ~~ovates~~

How about Compressed air  
Chip Exchange for Mexico &  
Europe

---

~~Learning - Bad practice taken  
help from 1 dept to another  
bad~~

---

Wilson - How about  
Representation in larger  
Cities. Wines, well, soon  
pass them up well  
have trouble to  
get them

---

Handcraft start  
General formula -  
Amberal  
Dose  
Balls  
Swords + etc.



Talent on Disc

1000 records daily	2.4 cents
1500	1.6 "
2000	1.2
3000	.8
4000	.6
5000	4.86
6000	.4
7000	3.47
8000	3.00
9000	2.70
10000	2.40

Cost Phenol resin 875 lbs Resin

1000 lbs phenol 7 1/4 c	72.50
600 formaldehyde 8 1/2 c	51.00
12 hours labor 20c	2.40
14.4 cent lb -	125.90
with 5 1/2 6/4	17 cent lb.

719-4 to 1	3.4c per lb
3 1/2 to 1	3.68
3 to 1	4.10

~~How about repeats~~  
~~No 719-Records~~

~~Learning - Don't Simkin~~  
~~use qts to roughen~~  
~~Drummers -~~

~~Get - check references~~  
~~on film design~~  
~~How about cleanup for films~~

~~Hear Knows - Stacks~~

~~Get a sample for day work~~

~~See Gardner~~

~~Modified Disc~~

~~See about V6 after our~~  
~~disc - adopt Model~~

Try all, how about more  
for Emgraph Chalks

Try heating the  $5\% \text{CO}_2$  by  
soaking in  $5\% \text{CO}_2$  water on  $\text{CaCO}_3$   
+ exposing to air - EMG

~~Diminished - false thermite  
also more~~

Try effect of  $6/4$  on  
phenolates

Write Langbein open houses to  
droping from my 22 they  
have been here for about 1000  
for sale for nitrate -

2 or 3 lbs better  
than 50000 mm

Smith - local natural  
scent on oxygen  
 $\frac{1}{2}$  plates

Think  $5\% \text{CO}_2$  soaking  
Reducing  $\frac{1}{2}$  against  $\text{CO}_2$   
will reduce all of it

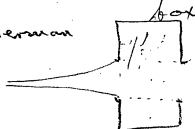
EMG  
CII

Watch - what ~~some~~ of  
aids develop ~~of~~ film  
Machin -

---

Harry Keller - when are  
Mrs Batchelor notes due

---

Pierman 

Remembers Seven at Norrigan

---

find out what is done,  
with old white Maslow

---

forming sheets of  
condensate - wipe the  
surface with oil  
so some more brass  
flow Vap & Baker

PB - Wilson

- 1 - Chyrd is 100 volts 1 cell to see if EMF has anything to do with it -
- 2 possibly  $H_2O_2$  formed we need catalyst like  $Zn$
- 3 perhaps needs  $Hg$
- 4 Get old books of ~~general~~ test cells & ~~abstract~~ full record of PB cells the prevalence of  $Zn$

Wipe surface of Varnish with Koff & transfer on 719 blanks.

Listen to Choruss  
good - Call me up Darling again

Wilson - What about  
An Economy Man for whole works -

Maxwell - <sup>Wilson</sup> about 1 $\frac{1}{2}$  Can  
Beaker in the kitchen

Bing - give me number of  
good & better times & trade  
picked out as far as  
how many we have records

See Drafting in Re  
Screen for 719 powder



Extra piece on  
hammer of piano to  
stop double knock  
like W/ loading base

See Jones about last  
combination on 948 by [unclear]

Bring to house  
Ave Maria - Orsolini -  
Carmen Meloni one time  
year -

Follow by Anita (copy)  
of piano & holder for  
same -

Ask Runtle if he made  
up lines 2 calls  
with great excess was  
9/26/60 to 2 months ago

Old old looked as if I used  
Sulphate of Cobalt  
where dipped 24 hours -  
after that, get an old  
cell disassemble Ni  
& soak out well &  
dip 24 hours in the  
Cobalt & reassemble

---

Ask Smithly if any of  
the Reg. old cells  
used the regenerators  
are running

---

Mark - test the Records  
with twice the rubber  
on - investigate the  
cause of small amount  
of Rubber now on  
records

---

Dully - Orpome does  
with some samples  
added

Dully. req dig boxes  
put in clear with  
pairs of Ch. Calcium  
or Dully him

4 B4-B3 Cells  $12\frac{1}{2}\%$   
in Huelch after dry

Wilson at present rate  
large Dices are going  
we already took  
ahead of Cabinets

Perhaps little R. Sulfide  
will destroy quantity of  
to plates

Dec 5 1913

Tunes on hand

Instrumental

Very fine - Beautiful

Recorded 12

12 originally

Good -

Recorded 167

Not recorded 68

Songs

Very fine

Recorded 2

2 originally

Good -

Recorded 148

Not recorded 94

Light Grand Opera

Beautiful + Very good

45

Not recorded 27

Good - 273

Not recorded 167

Total Unrecorded

356



Look at slot in Disc Governor  
+ fix it so don't go delinquent  
or get out. Handled per-  
buffs + slot burnishes.

Leaving - (What is out  
Penta Cooling)

When we get near Blank  
young walk take up  
Exhaust getting rid of  
Penta by a cheap  
substitute + certain.

Expt with Seebmaster  
Cathode dip to stop  
Snaps.

Turn + track new  
Candlelight + non water  
~~to~~ ~~Leopold~~

Exp on getting from  
Electrical Recording  
material - also to  
Electroly & take off chips  
when recording

Expand & settle the  
Disc gear slot &

Settle pulley on  
Ford Dynamometer gears

See about standard  
blower & graphite  
bearing for both blowers  
no oil

See Beal about  
head lights for  
Ford 20

Follow up Vic again  
all ~~starting~~ ~~Legal~~  
Dept fund & saw saw  
Niska Union or Vic  
Speakers

Pre - Why not let  
the ~~company~~ go see  
Indian Cycle &  
get in a ~~chance~~  
of ~~work~~

Smith gave me 4 sil

passive virus -  
dip in acid &  
immediately  
put in K&H,

Smith Reports  
over 2 days

~~Smith, also ~~has~~ put in  
Bhlorika K of the  
Pearce 1/2 acre  
of plates with 30,  
amp for 3 months  
would not ~~be~~  
at Kalama, but  
nearly all of ~~it~~  
then Roy Reg -~~

~~Smith - also dip 4  
It is weak but  
Smith out in ~~part~~  
of ~~it~~~~

~~Smith's phone was  
Running 90 -  
Blowing ~~blows~~  
Pattern selling ~~Organization~~~~

~~Nobody to go & start clean  
& show how to sell -  
Old Smith wanted  
Know how to ad -  
was ~~demanded~~ on  
150 all ~~people~~ had  
a 250 -  
Smith ~~from~~ waiting  
for somebody to  
come around -~~

~~Meoli - Halpern  
have we anything  
to prevent going  
higher ~~lead~~ 20~~

~~When: Bluffwell  
Train to ~~near~~ ~~the~~ ~~street~~  
good ~~address~~ 90~~

~~Smith's ~~phone~~ ~~number~~~~

### Choruses

Rehearsal next again - not  
very good. Fare there  
4 - 1/2 hrs 3 women to  
Gallun, at times, Coarse  
& sharp -

Walter M. Kelly next  
more times like Nelson  
Gray all together &  
loud like that,

Kellarm next good  
superior, outrageous,  
president-like

Lady & Co. fair  
pretty good balanced  
just about right High Range  
out clear, but not too much

like use Kellarm failed  
is all out of balance

some Day fairly  
balanced soprano just a  
little too loud -  
Chorus fair -

Kiss Wally next good  
sharp like soprano which  
sounds like soprano over  
which you hear a  
soprano,

Short Tange good  
Tenor & Soprano balanced  
just right as to volume  
fair to good, not sharp  
at melodic Chorus -

Afterwards  
Chorus fair but  
Tenor soprano too much  
in volume -

little child shall lead them  
only just above & profound  
in character -

For you + chorus  
fair, ~~and~~ there is a  
sharp's side in it that  
disturbs McIlwain this is  
authoritative in his middle  
recital - fair -

Native Blood Song  
not good, sharp -

intense  
Funiculi Funiculi  
Chorus sharp -  
religion -

Old Kyrie  
fair -

Down other Bird  
fair - some interference

Of Promise  
fair to good.

Carry me back to old Va -  
fair to good, balanced  
fairly Except Chalmers  
predominates a little  
too much

We have no overt Carbons now  
Soprano predominates  
but not much fair -

Kind and coming  
interfering, sharp  
~~to the main thing~~ that  
good.

Relent / Neglect  
fair to good Chorus  
Sophron & Juno  
nicely balanced as  
to volume - well  
balanced with 3 -

Hee as a Bird

good = that was predominant  
little to remedy, if less it would be  
perfect -

Swart Day & Day

fair to good but Chorus  
predominant where he  
comes in -

Word you write / letter  
intended in just right volume  
Chorus not good, sharp comes  
too many voices  
just before the battle  
Should not have been a  
Sophron in Chorus  
Can't hear any - Rather  
coarse

J V Miller - How we still  
got Caball Route up -

Romeo & Juliette  
was a note that  
blasts - 2074

~~Smith <sup>house</sup> <sup>town</sup> March 15<sup>d</sup>  
Indicator night night  
Orders were to keep  
pen in & no numbers~~

~~Look up <sup>Victor</sup> records  
at house & bring  
down to lab.~~

~~Look up last 6  
Written Trials for  
Chips~~

~~Moore - How do chips  
on last few seconds  
we put thru for Miller~~

~~Moore - Dardel girls moose  
index still recognizes &  
have them tempo to 80 &  
set it - Then after 1 or 2  
hours time & see if ok  
& then Every 2 or 3 days  
time than full walkup -  
Changing index Dimpulad~~

~~See when how get on with  
Screen~~

~~Index Conditio songs~~

~~Colaptes~~

~~Saptrax~~

~~Tenax~~

~~Bealton~~

~~Mezzo Sop -~~

~~Diets - Tenax Sop~~

~~Barbar Sop~~

~~Conditio of Colaptes~~

~~Comae~~

~~Tenax Barbar~~

~~Tenax Barbar~~

13 days

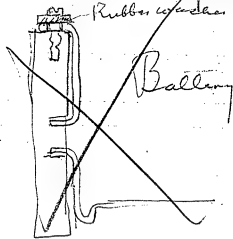


Henry Prouman Repair for W. Miller

Jones - ~~Bill~~ Currie -

How about Pulley test do Galt

~~Rubber cylinder~~



~~See how Moore puts two~~

~~Celluloids together -~~

~~Try thicker dope on Celluloid~~

~~Wilson Maxwell~~  
Have rec'd 2 Complaints  
10 5th day no one in  
Dinner + Arrange  
to Have 2 or 3 good  
demonstrations in  
all-around all the  
time after admt

~~Wilson Hendric~~  
Check your record  
now of all kinds -  
not print just what  
is called for but  
standards good  
Tiq

~~See Drawing Home~~  
Controlled, Disc

~~Wilson Max~~  
Our Plan go around  
to Readers + See  
if Members are  
well represented  
dills 10 5th day

~~See if Key Orders~~  
have full assortment  
demonstrations  
Records - man go  
around -

~~Make what do specimens~~  
from Family Clearnet  
1/9

~~Has Australia + Argentina~~  
Records + Shipping

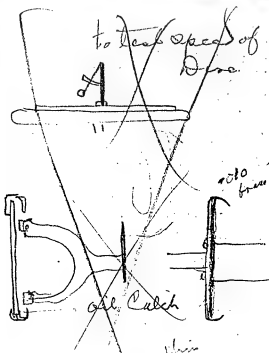
From all reformers  
are to print 6 ~~sets~~  
without label for use  
as No 2 ~~Master~~ <sup>with No 1</sup>  
~~they put words~~  
away

Woods Very important  
was dot of to 6  
No 2 Master of  
Euler of expression  
pieces +

Warming black for record  
at dealers -

Woods test speed & Re  
set & report on all  
governors & do same  
next week & weekly

Italian street song  
not as good as Victor  
listen to if no  
cut out & have  
it taken over  
get Victor & then  
Beat it +



to test speed of  
Disc

Get Machine with Motor  
New felt pad to oil  
on disc gear & test

Also get run catch for  
oil from dust to test

Where is the Tone regulator  
for Disc - dial marking

Where is the person for  
blank powder

Fly Wheel on Mandrel of  
cylinder & worm drive

test & plan new records  
Monday

Chief Draftsman  
Design 1" higher Gate  
position on dial -  
" ~~correct~~

See Norton how  
Gate lead yellow on

See U. S. National & Wilson

Admits in Boston - also

Ev. J. J. & American -

Proposed to expand 3000

13000 2 Hartford 1500

Expenses dello. N. H. & W. W.

800 Portland 300 in 2 other

plans - 3000 St. Louis

2000 New York -

1000 Philadelphia

2000 Detroit

3000 Cleveland & Cincinnati

5000 Minneapolis

1000 Toledo

1500 Buffalo

1000 St. Louis & Memphis

1000 Milwaukee

1500 Los Angeles

2000 Frisco

Toronto - Albany

Calcutta

800 Louisville

35000 included  
M. W.

Jan'y 13000 Mar 10 per month -

	Jan'y	Feb'y	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec
	13000	17000	21000	25000	29000	32000	34000	36000	38000	40000	44000	50000
Each month	130000	170000	210000	250000	290000	320000	340000	360000	380000	400000	440000	500000
Daily	5000	6539	8077	9610	11150	12300	13070	13850	14600	15380	17000	19200

Ambrosia 10 Make longer  
box & better funnel,

Make new diamond for  
ambrosia smelt so go to  
bottom & all what comes  
is to improve quality

~~Have new serum sent to  
Chouveau & test it  
or Dally test in 21~~

~~See Learning about more  
grounding (Kilmer got)  
Symptoms~~

~~James Records~~

~~Opel test~~

~~About getting worded  
to help in lesson~~

~~V. unresolvable~~

~~Get him from before  
of machinery he will  
not use it <sup>10</sup> ~~as a  
storage battery~~~~

~~Repair man stationed  
Chicago, Boston etc~~

~~Dunwoode - Graft a  
white light & then  
track it & then re-graph  
& photo~~

~~See Maxwell (Ochs)  
about new Adol~~

~~Don't know without  
my approval~~

~~See Trinton about Loney~~

~~Make up 2nd Camerilla  
by Terry & Mary  
or better~~

~~Lipman Contract  
if he gives notice  
then he can't have  
right to gather  
to furnish gas sold  
So I can't deal  
with others for  
Exclusion -~~

~~Wilson to write  
NY dealers who  
do not sell on  
installments to  
prefer them to  
the option that do  
not lose sale  
to us -~~

~~W. Miller Make up 3  
boxes without Mercury  
tell Smith put on test  
& try village Curves &  
Capacity at temperature  
from 100 down to  
34 Falsi.~~

~~tell W. M. boiling water  
will work quicker on  
Anby type plants  
fused in heat  
has 2nd plant -  
+ make 1/2 lb. for test~~

~~Chief Dr. Kimm  
see type in my new  
Electric - water &  
Hydro~~

B22 get Blue presents  
of present banking books  
Paul Wilson's Standard  
of M.C. - Baker Anderson  
& other Crust maker  
R.R. & Beach Cars <sup>all they</sup>  
Went to <sup>over</sup> ~~all~~

Franklin Chief of Police

Vibrating the screen

sort by sieves & dump  
it by ~~leaves~~ & dump

Write Bergmann  
about building in  
Lithia

Program read for Bergmann  
Ashley where <sup>is</sup> ~~is~~  
he going for ~~Lithia~~

Who is the instrument  
Ending - Happy Mountain  
Chickens - these  
are fine -

Process Sulfur with L. 086  
Wash fine L. 086 with vinegar  
usual L. 086 fine & L. 086  
then assay to see if L.  
Combined with Ni S

test our ore for phosphorus  
test it combine with L. 086  
also Nickel hydrox -  
& H<sub>2</sub>O. ~~est~~



~~Recs about deal for plates~~

~~Still pulling out man  
Estimate by day  
System of clubs -~~

~~How many D. Palmer  
Records made was  
& if we have contract~~

~~Backlund about his  
books - must call  
off~~

~~Listen to sleepy  
Rose visit  
Something wrong~~

~~We have much to be  
thankful for  
Must change  
of clothes in house -  
Listen -~~

~~A Summer girl  
good find~~

~~Happy moments  
One of the finest  
Miss that we could  
we have this type  
is perfect, sharp  
soft in singing  
& the other words  
just as they are when  
not singing~~

~~Control - heart below  
down - glute no  
at throat level in  
happy, it  
control next to  
calls all with glute  
is clear in the part B D -~~

~~Melismatic only  
down control alt  
or Harzo - no high~~

Facts in song  
82519 - Casness  
Sings flat, all say  
Bad, tries reaches up  
note a falls flat (10)  
below - ~~xxxxxxxx~~

~~flies as a bird -  
Chorus pretty fair~~

~~No place like home  
Chorus fair better than  
flies as bird~~

~~Swallows  
female diet food -~~

~~Treasure Valley all  
Mixed up ill defined  
Noise in it Saw tracks.~~

~~Harzo makes up complete  
list of all songs  
Casness was singing in on  
Victor -~~

~~Who among 60119  
good voice - Kankas~~

~~Moore we get a good  
many records (several)  
so they come in -  
and it come in  
Nimbaning etc -~~



~~1  
inlet  
on disc  
Reproducer~~

~~Catalogue - How about  
Nimbaning Condenser  
50° 80° together -~~

~~fix food Bro photos~~

~~fix up the new plating  
table to Rulsh things~~

~~His & woman of Peale  
got branches in other  
Cities~~

~~How about Fred Cll  
Gross~~

~~Arrange for John  
Disc list & card page  
Some for it See Supplemental  
list plus for issue &  
arrange for my list~~

31<sup>st</sup> Dec. If all was done & all  
that went in called to 31<sup>st</sup>  
lower out. was called  
present 52 times / 26 Dues

Viola - plays & also violin  
best builder is A. Chiv  
higher - Or A. Violin -  
stronger & another one is  
stronger & adjusted  
As its an octave higher  
then no beats can  
take place there  
Can be heard

Walter Kuller  
Your fluted makes  
at times would make  
notes when not  
by other instrument

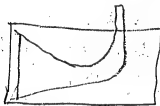
Tremolo is caused or  
can be caused by one  
Chord vibrating say  
256 sec the other  
259 - This will  
produce 3 beats  
per sec. if one side has pliers  
other free -

#### Horn notes

64 sec	105 inches	8.7 ft
128	52.5	4.375 ft
256	26.25	2.1875 ft
512	13.125	1.09375 ft
1024	6.5625 "	
2048	3.28125 "	
4096	1.64 "	
8192	0.82 "	

Halpin - after Hayes  
Chick Ripley talks  
to Halpin & he tests on  
certain records that  
Moore select -  
& make reports -

Old H. Chubbuck Ellis -  
Kalaigh & all others  
back on down &  
send to House



Cutting this sheet  $\frac{1}{2}$  to 1"  
in Amberala X sets covers  
go in box & replace it  
long -

Pearson -  
What will you get do  
with it  
Big news had change  
of it -

Pre-Talking parat

Why does the only Edison  
Lighting Co in the US  
who has pioneered more  
new things than any  
other Edison (Co)  
~~best~~ buy & sell  
storage batteries  
& why do they buy  
Edison batteries when  
they could have got lead  
batteries for ~~half price~~

Smith's 2 feet runs

12 grains of will grow  
higher 10 cells & probably  
go to lower temp

Feel this -

When the deposition  
diminishes to a certain  
point & the metallic  
surfaces increase

You get gas & this means  
loss of economy -

With present systems  
of Iron this critical  
point not reached

Get from 6000 enough  
of new process  $\frac{1}{2}$   
to make 2 or 3 pounds  
& have him take to  
Silver Lake & make  
aluminum  $\frac{1}{2}$  p sets for him

See Kammhoff about  
furnishing plant a set  
and Major & Big Springs

Smith = take B. D. cells

5 grain Antimony K in  
and 15 in 10000

30 grains in 10000

Also bring over old  
Cuvette book showing  
charging Ni H<sub>2</sub> & Co  
Caldwell experiment  
of cells

~~See Quinn, what becomes  
of Luther's claim~~

~~Bee did album (see any  
over battery in that view)  
Trux -~~

~~Smith - Every month  
part 2  $\$$   $\frac{3}{16}$  Equus  
to A4 up for  
Endurance so I  
can guarantee~~

~~Smith get ~~copy~~  
Ten lbs very  
without  $\frac{3}{16}$   
Make 2  $\frac{3}{16}$   
& 2 A4 cells for  
Endurance~~

~~Went back to where is  
Ward Leonard Repley~~

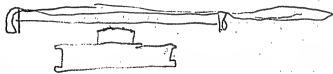
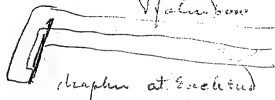
~~See what became  
Anselmi -~~

~~Back at assembling  
rooms at  $\frac{3}{16}$  &  
& testing -~~

~~Lulu new specimen  
Rue lost test  
into Repley's  
& retention of  
oil~~

2 Cells ~~2~~  $1/4$  a  $2-3/16$   
Twice the gross at dump  
Same flake - Ryan underlines  
Extra  $7\frac{1}{2}$  g gms represented

Smith - Fry  $2+4$   
Gross Phosphungelate  
of K in Cells  $2.15$   $2.11$   
ditto Borogeframente K



Collection at home moved dept -  
 $\$64^{32}$  daily - which is  
about 2.2 cents gross  
on 3000 daily output -

Barry - Wilson check  
once month to me  
+ I endorse it to  
W

Pkg Kencoplus  
Redond

Leeming / Keep on with  
felt in grove to hold nail  
till we feel out  
Run oil holes



~~Speak Hatch abt golf  
Spent him -~~

~~Fred Ell - talk about  
Hard Rubber for cutting  
hurry it -~~

~~Ask Miller if hurry  
up that 5 min test  
for Loti trials -~~

~~do not increase  
tax - must be  
before M & H  
be found~~

~~Bookman - tear open  
Nickel tubes, both row  
& Nickel from bad  
Cells, Fed Ni both  
bad - 3 Cells, each  
send over to me~~

~~Have they erected 1  
Saw table bly across  
from 21 to Lab Care  
cellular~~

~~Days <sup>give me</sup> numbers  
of records of Records  
Martin that have  
been issued by the  
post to months!~~

~~Walter Miller to save  
expense a get right  
Voices using not  
make trials with  
Plans or 2 or more  
voices for each time  
ahead & then  
decide - /~~

~~Anderson - \$250  
for it put order~~

~~Walter Toy Chamberlin~~

~~logs put 7" of hard bag~~

~~think that trouble is  
Echo interference -  
phil's don't put down~~

~~Simpson - Oregon  
Clock - release by  
Mog - 10" or some) on  
paper scale -  
near more releases  
How about 1" w/ 9" w/ 2"~~

~~Simpson - Dec of  
Business Machine Cant  
be used - or better  
a frame with  
multiplex -~~

~~Walter Miller  
how collect  
Harry Lander  
for C & D~~

~~Premium Run were  
down stairs & lay  
our machines with  
with new gears  
with & without new  
old run~~

~~All of I have patented  
the ball in the room  
Harry up model -  
ball is best but get I  
right - handle on Request  
Ball longer I think -  
my Gallon ditto  
wool - wool waste  
wood fibre we make  
blankets of -  
Ask Lutz put man on  
it special & keep him at it.~~

~~W Miller - 40's aged you  
Maurice Tange ~~Harry~~  
have used required  
from 2 or 3 4 from  
13 above - its a very  
poor thing - its long  
many complaints that did  
darker than too bad ~~him~~~~

~~out come~~

Mozart  
Ave Verum Corpus  
is celebrated for wonderful  
purity & smooth harmonies  
on examining it ~~it is probably~~  
found to be extremely sweet  
effects none but major  
chords & ~~of~~ chords of the  
dominant seventh,

get it

~~Get the two books  
4/11 from 14 to  
21 —~~

~~Halpin - next  
look on 250~~

~~Maestro Wilhelm  
felt. Let me hear~~

~~Moore - rather take  
25 passed record  
reality make run  
over full record see  
what percent bubble  
Suny develops~~

~~See Drayton & lay out  
new Kinophone  
plant~~

~~See Simpson about  
thick wax record~~

Patent all the good Chem.  
for mixing with Varnish

find from Smith. How  
2nd to a talk Loll  
Iron came out,

Harry Foxward  
Hard rubber Cell  
Support

Heyes - List rec Records  
Covers how many -

Lauriehan / Anselmi  
Contract,

Learning make list  
What was can use  
at Beach. 60% of Cost

Pierman - Had Maly  
artificial hair

Chrough - contact  
on ~~to~~ 1 egg / use a  
clock

Moore when can you  
use explanation talk

Hoffman - how you  
set candles grinding  
up new to look's -

Reply to Graduate woman  
Chickens

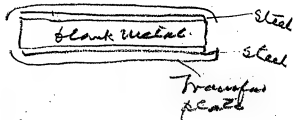
Unless Record, ~~finished~~ -

See loan of English  
film -

How about that ~~idea~~ for Celluloid

Rec how many ~~press~~  
# of ~~press~~ got ready

Ways, how about  
Pans from Debris -



2 steel plates  
transfer on -  
single face record

Smith -

Found record / John  
and 7/8 from big Cills  
got back by fully  
Chg & then also ~~checked~~  
against ~~can several~~  
times -

Important +

find out why ~~times~~ <sup>(good)</sup>  
marked good when

Recorded and ~~rather~~ -

Got from Hayes those  
Repaired that were marked  
Good - 2414 Kellerman

Who was ~~by~~ removed  
& many others judged from  
Pans or D. class -

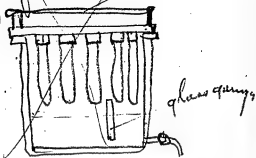
Hayes get me some  
prints of some of  
Late records  
I passed to Callahan

What I work is most used  
in England - "I don't know"  
Man what scientific work is  
this good heavily water, up to  
2nd water, up only well  
water

Try grinding for  
Wicks Callahan record  
with Vienna lime or even  
Chalk. Lime or its dry  
& test -  
do this on ~~palms~~  
Machin or used to  
paleo. Copper record

also try dipping it  
dillo grafeliza very  
heavy & test ~~up~~ on  
it - if good, plate  
for No 2 heads -

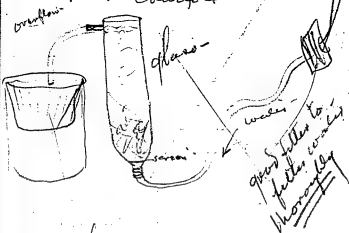
Simpson - lay out  
bag filter - cover



2 or Even 3 layers  
lines,  
Mylonges get clats out

Food All about Kers -  
1st & 2nd plating trials -

Christensen try  
for floating graphite - use  
cond. +



filter  
final wash -  
filter with distilled  
water -

From try before brush to  
paleish & white mould  
with a withered Kers -  
no powder, then with  
powder -

Christensen (filter,  
Candelabra through  
clean funnel +  
paper with Kers -

Take a Draughtman to  
Flores used on  
Calculating a small  
work, illuminated  
Rust boxes & Drawing  
boards & tools



Rec about Selwyn Kurz

Wilson - Works upon Kennedy  
etc great desirability  
of 2 travelling fundition  
like Scott's

arrange with Moore &  
band to put more  
people on ~~travelling~~ ~~fundition~~  
up to 1000 daily

Select - More lines  
for Latvia, Kusta  
Amo Akete,  
Get Kurz &  
2 best Wilson  
Colonialism

Arrange lot songs  
for Wilson ~~to start~~  
& ~~presenter~~ play -

Select lot violin  
pieces & get 4  
Each from 4 best  
Violinist can get

arrange ~~fluently~~  
etc

Select Neatrics  
times low seasonal  
& Ah Meifels  
Prospect

Compose songs  
a group ~~200~~ ~~sell~~  
Melody etc

~~fall Walker Miller was  
found dead at his home  
Morgue at Salem Oregon  
and - told him about  
same -~~

~~Learning  
Wife at school, Smith  
Powers - says trapline  
not not there much social  
Whiskey like other hard  
he bought the work.~~

~~Dinner -  
where is my book~~

~~Cherish  
Saponin  
Curdell after  
purifying by  
Alcohol~~

~~separated again~~

~~Jones said on that  
Worm gear was  
made for Jones~~

~~If Jones had got the  
brass bush, said Prudy  
right & about Newark  
& got brass to make  
& had a sugar to keep  
Newark~~

~~Instructions on  
inside door -  
Dose MPE~~

W Miller -  
~~Make false note of  
 leading without  
 playing then  
 join the swing~~

29 Jan

~~Records in Cat 1<sup>st</sup> <sup>9th supplement</sup> 389 Tunes~~

~~New Supplement 24~~

~~Future List 42 lines 21 Rec.  
 14 " Single~~

~~Not included 8~~

477

Get ready for <sup>to</sup> Lusi  
 work

Get Anselmi ~~external~~,  
 Ask Walter Miller about  
Talperson Trio

See Hoffmann about  
Qersms 12 wanted of  
OK

14 Disc for the record  
Jensen - Moore run  
them for test.

See Halpin about  
the Curvis effect on  
disk about Governor  
disc headline -

See Worm & Gros Jones  
ford

Wilson about development  
Studio -

Moore about ventilation  
Sakane Varnish room -

Leybrand, clearing house  
Ola Moch

Stitch, Moch, to get  
up plate Washing Moch

Moore lay out press  
2nd floor,

Christensen after get  
them Carabellera base  
perhaps stand Myrtle  
way base Edison  
see Myrtle, or High BP  
panefin

Chromium - find a standard  
tough & soft by a substitution  
for Cerium with Cealuminum  
as Lister don't mix or  
rather describe.

Make preliminary Expt on  
the mix removed from  
abd Cell.

Wash lots of KOH.

dry, remove flake by  
scrubbing, then wash  
Very Wash days <sup>15%</sup> dry.

~~Wash~~ abt 15% flaked  
Chngs to it  
Clean flake with H<sub>2</sub>O<sub>4</sub>

Wilson - Why not try  
Expt of an element containing  
of Home kind. A Catalogue  
probably illustrated from our  
film City & with 200.  
testimonials. Will have  
Getting up a very fine affair  
Print by Central & Grey  
Making list & start of  
do as Babson does -

Get samples of Uranium  
(Radium) H<sub>2</sub>O<sub>4</sub> in  
filling order to different  
grounding machines people

John Lee Jones  
is the drawing for the  
machine for testing  
~~parallel~~ tube measuring  
metal -

Have Carbon transmitter  
John all designs which  
just finished put up shelves  
in Library -

See Hays about dance  
music passed but will  
be held, now in my pocket

See Hays about book &  
Collection of literature  
songs

See if even file in  
put in Cl. new collection  
of files a new Room  
with Representative description  
of the subject matter  
opposite

Speaks But Crute Druggist  
about taking of all collection  
Cells to get big insurance at  
end

See Howd where we should  
have office & cleaning house

Attend to the Diamonds  
Moore - Print Brown celluloid  
Moore - Print the 12 new  
scrapped powder blank

Make results of nickel from  
Old tubes,  
See Worms on food

Mind about  
mounting cabinet part  
in Dene case

Select. Bab feet,  
& Malzmann ~~turns~~

Moore get 20 print  
Dresses at work  
soon as possible

get more circulation  
water, & select  
1/2 doz ~~boats~~

~~Important~~

flow screened powder blank  
perhaps get rid of bromides  
plates, flow & dry then flow with  
sae, ~~water~~

Think that chyd of Ni frings  
about Calif. Hydrogenation  
from Ni flakes, ~~Hy Iron~~  
flake, the electrolyte ~~to~~ ~~will~~  
will not be attached much  
I guess -

Walter Miles - see what  
can get to him from  
Melba Vincent, Dunbar  
Sawyer got ~~it~~ is  
Remember -

Make duplicates & other  
prints as you did & send  
them out - will send  
them & get condensate  
Records for permanent  
samples ~~two~~ three

~~Carl Fleisch~~ ~~Kelmer~~  
3 or 4 pieces -

~~Caroline Vahle~~ 1/2 doz

~~Moore~~ get money -  
planning ~~copy~~ all along  
line for (12<sup>th</sup>) ~~month~~  
NO 2 + ~~copy~~ ~~month~~

~~Try~~ hard pitch ~~get~~  
cellulose for NO 2 ~~month~~

~~Ask~~ W. ~~Wells~~ of  
E. Springs, ~~can~~  
Come over & ~~long~~  
check at ~~change~~ &  
Can she ~~see~~ right  
off (12<sup>th</sup>) ~~month~~ ~~month~~

get best Carraway records  
that we haven't ~~sub~~  
Dred from ~~Blackman~~  
at job ~~price~~ & ~~volume~~ 1/2  
pieces - Then select  
for ~~analysis~~ + ~~lab~~ -  
Dormer etc,

~~McC~~ ~~Cherry~~ give me  
Advisory ~~State~~  
Ming ~~State~~ ~~Drum~~ ~~know~~  
& all ~~Wah~~ ~~paper~~  
for ~~new~~ ~~line~~  
or ~~lost~~ ~~pharm~~ ~~halt~~ or  
Catalogue

~~Estimate~~ ~~Cost~~ ~~Wfg~~  
~~New~~ ~~Revol~~ ~~scope~~



Moore try with  
new fine powder blank  
5 min contact 12 min  
full press - 5 min is to  
get air & vapor out,

---

Walter I want to read  
after Committee the  
new Cylinder nos to  
pick out those for  
Disc,

---

Hayes get me records  
ambal bel lost  
3 months want to  
pick out some for  
Disc -

---

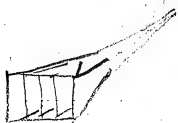
Waller - What Saxophone  
players can you get  
Sophron's Barlow & Bass  
Don't they sound really  
Clarinnet, want more  
Saxophone as in  
Fornest Whisper

---

Moore bring over  
25 peeled records  
from Paradise E & G  
Want see if any  
are Double Transfer  
Etc -

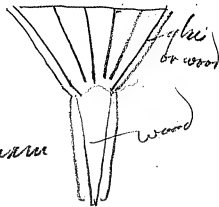
---

Waller. It may be we  
get sharp when too  
loud with 20mms voice  
needle sort of down (115)



glass

glass



Piermain

glass  
or wood

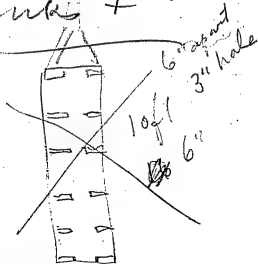
wood

~~Edging Auto -  
goes in too fast  
screw too coarse -  
Auto feed man work  
3 or 4 inches~~

~~When the platen  
changes do it  
in one direction  
him would work~~

~~Woods Press Press  
in Die Meas  
Dip~~ <sup>Cellulose</sup>

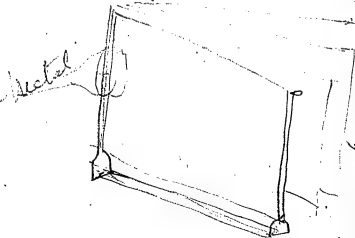
~~Hammer of no  
way to drain  
FeSO<sub>4</sub> Crystals  
tanks~~



~~Dimond did about making  
glass funnel~~

~~Woods want 10 presses  
got in soon as possible  
floor 2~~

Heavy plate glass 3/8  
thick - Replacements - 3/8



Dolly  
take the 2 pal feet  
2 1/2" dies + press dies  
Celluloid Card with  
1/16 rubber on one side  
also warm up to  
where don't stick  
Rubber on pal shoe  
side + off

Tommy King jewels  
in safe up to (Koree)

Mex - Don't sell  
cutters for Cars  
until we get  
Schubert etc

get Chapman Nocturne

Wilson in Central  
with ~~Wilson~~ provide  
E Sharp name belong  
to us given up  
when they sell  
other plates must find

Barrel sound may be  
due to wax + carry  
over



heavy paper  
so all is wrapped  
low as

or even  
thin paper  
to leak some



1112

Wilson - Shall we want to  
 get some of these factors  
 not to be so far as impossible to  
 establish class A dealer  
 in England) ~~is going~~ -  
 Australia ~~is going~~  
 G.L. - or long get one  
 now -

Waller - How about  
 an all slumped  
 Quantiles or 4 & Harp.

Waller - Are you going  
 to give us a paper with  
 The big Oracle effect?

Waller How about  
 Edith Walker

Trunks ~  
 ~ Pure ~~Trunks~~ ~~into money~~ ~~Trunks~~

Thin

Rich

Volume

Thin

Rich

Record the details of the  
17 Tosi surveys so  
we can collect the time  
properly -

Walter Wente/Tosi  
to time his phone &  
keep it at 50 & not  
depend on regular  
too much

Diagrams try 30 glass  
tubes with inside  
dia - 6 ft long  
or brass pipes that  
phone wires have 10 ft lengths

Present Mr Coffin a  
Phone + 50 Records  
#250-

Feb 8 211 Records given  
gone to public  
To go out 12 Req list  
plates attached 39 -  
not numbered 12 Times

K5 calculations disclose  
Mr Ott to double  
salt R&B cont  
public may be at double  
dis - at 100 ft

July follows 60  
Valahedt  
offt his other times

---

Jony K Bromate Na Bromate  
& Na Chlorate  
& Other Sal Chlorates of  
Nickel tube mix  
Separation

---

Ask how much of he can  
ground up blocks  
for are they as good as  
Crescations

---

Write Russell if he  
doubt want consider  
venting bottles  
Make 10 yr continual

---

2 Oll - did Fe go down to  
Silver to be put in packets  
Fe fun and safe

---

Smith, Remover 10 lbs  
more of Ni from bad  
return cells.

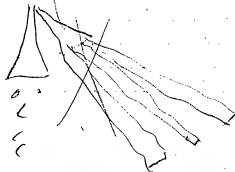
---

Stick of Nitro from old Lib  
Falsification Com. which  
Separates flake in 24  
hours

K Sulfonamide  
Seignette Salt  
K Salicylate  
K Citrate  
K Hyposulfite  
K Bromide  
K Chlorate - gum

24 1 1/2" boxes Cakes  
Squash 6 times  
Locate in Jar with  
furrows than those  
ac - 12' 6" long  
Only cells muffled  
over them act 4 or  
5 times longer  
Evidences absence of  
not hurt

in the electrical net  
sharp in wet nitro  
method, Can be used



Draw 6" dia Drawing paper  
Sharp wet so and quat. no Gram  
into best method  
Stop separately number  
two far away from  
local peak hit -

Pisom  
Try single Picas tube  
Then the whole bunch  
on Picas Record it -



~~Get - put 2" of the  
stick nickel mix from old  
tubes into small lamp bulb  
flasks & just through salt  
Del of 200g K + Na salt  
& leads 3 or 4 days + note  
disintegration -~~

~~Theoretical amount clean  
for 24 pieces 27 hours  
35000 ft<sup>3</sup> Working out  
11 1/2 hr + Condensing 22 hours  
64363 lb hours  
200 P. 1000  
500 lb hours 22  
hours about~~

~~See from get glass tubes  
10 or 12 ft long 2 or 3 of  
them 1 1/2 dia about  
1/2 wall -~~

~~See Dimondlin get  
Taper of cleaned funnel  
of glass -~~

~~Dimondlin - try get  
working flow much  
a right one has on  
Cellulose at least~~

ΔKE Wally -

~~Mudd - Give me cost  
of renewing a cell,  
supposing Ni flakes  
Cost nothing using top  
parts, Rubbers etc -  
+ doing drawing  
also without ironing  
but nice pockets -~~

~~Christmas try gum  
Chicle in plunger thermomx  
+ zinc white for  
Sub for Celluloid on  
Disc Sub~~

~~listen again to Selma  
Kurz & the other  
singers in Europe  
membered good in  
first time book~~

~~Monahan - recast  
get up waxy grey off  
tops + use OP  
Carts - K. G. G. Kim come  
over with Smith -~~

~~See John Call about  
tearing of N  
returning cells -~~

~~See Keyboards man~~

~~See Herb why not work  
wounds on floor~~

Smith - How ~~is~~ wells with  
no nickel plating  
gilding out

Christensen - How you  
chlorate R CCC ready  
for Smith -

See Jones how bagging  
got on -

Moore - where are  
orders for detectors &  
Vacuum cleaner -  
Also Extra Forming plates

Get set of Baritone songs  
from Operas for Pagnaloni  
Adele, Dina, Lucia, Wotie  
+ Milton Calaburina

Waller - ~~Get~~ scale  
of all our ~~papers~~  
from ~~W. Dale C. Kapph~~  
+ lower

Ad in Key Station  
papers - 1<sup>st</sup> see then  
follow with 2<sup>nd</sup>  
in 3 weeks -

After Crake text  
Clean with alcohol  
+ Vasoline Rubbers  
Top pieces so school  
KATH.

See Moore about  
~~Dalry's results~~

Wilson - say to Graf  
that we will  
not acknowledge  
that he is entitled  
to the \$100 money he  
has until we have  
noted the money  
we apparently will  
get & have him  
acknowledge it in  
a paper which  
is drawn with view  
of a possibly suit  
at last -

~~Get Dunning's Obituary &  
pay to Graf~~ 190 -

Smith + Read electroref  
battery 10 cans (10) stop  
Ckt open & ckt closed

~~Get Ford's & say travels  
& Bencher report money~~

Wilson - in relation to  
Belmont Chicago we do  
not consider the proposition  
for advertising -

Christensen - my Reseigh  
China clay - Kemaback  
Two will be affected by  
used in bath  
my piece of acid

Place in ~~Labels~~ on  
Class A boxes -

When song birds jump  
no more - first type  
of ~~acoustic~~ -  
good through popular  
with or ~~with~~ contracts -

Just compare ~~independent~~  
Rose Mouse with  
other ~~falling~~ locally  
Moose. Listen to  
Rose Mouse for  
Kosovale surface -

Christmas ~~tree~~  
Little graf with  
~~fluorine~~

80126 Echoes -  
other side ~~Palms~~ -

What became of the  
Rubber ~~bottom~~ from  
Stokes for ~~tree~~ -

Then get back to  
get 2 good ~~mechanical~~  
of ~~distress~~ -

Also see ~~Pratt~~ & ~~Chetney~~  
Chicago -

Smith - figure out 2 A4  
together making A8 - with  
can partition like in Murray  
Lamp -

See ~~Kennedy~~ ~~chief~~ on Miller  
Anderson -

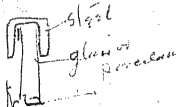
~~Justin & Martine  
Rings~~

~~Make up list  
for Jovi - Darts  
two or three  
septettes~~

~~also for Leanne  
Miller - second names  
for English~~



~~Rubber  
Granulation~~



~~spot  
to call~~

Wilson - Cut the payroll  
down to limit to our  
average sales for June  
Feb to date - ~~to~~ will  
close all round

Tell Weller ~~tell~~  
London to make his  
prelim ~~arrange~~ on  
40/1000 Call etc -  
1) ~~arrange~~ to get ~~Weller~~

May will frame up  
a 1/2 doz big cards  
send flat  
2 doz E-pics each  
one framing details  
other to draw prints etc. ~~at~~  
15/5

Alt filing Record  
Cabinet - see Henry  
Wilson etc

~~Bachman & Ross  
Patting Box design  
for Bat coils to  
test actually  
scheduled -~~

~~Tull Dumbordie  
about flame on glass  
funnel +~~

~~Precision design to  
test glass funnel~~

~~Bachman, Smith design  
machin show ~~product~~  
tubes. Then die a strip  
ring, a heat twist to  
open beam to remove  
old vessel + see  
Simpson about machine  
for removing from  
fun photo~~

~~Give last design to  
Simpson for crate~~

~~See Simpson view  
Crate idea~~

~~By Feb 19 get 134000  
fund money in bank  
+ 30000 due from  
TUE money~~

at Ft Myers design &  
put in my phone  
a good friendly Cabinet.

Wayes - friend - lateral  
pop pulper into music  
to me at Ft Myers -

Take my Galley &  
phone - but do not  
over my chair at  
house. to Ft Myers

Wilson & Max possible  
if aggressive in getting  
New Dealers &  
over adlets we can  
Contract for  
Summer 2011

Wilson - look out for  
pay roll, don't over stock  
with summer coming on

See Colored pic Powrie

See Resin for wood  
pulp in Chem Lab -

Tell Lott he better  
use Nby Sulphur to test  
for Ni - Sup of Lak & Ni Expts

Jones to get quick  
Results on tank 2  
Ford Engine

Moore - has did and his  
dye label experiment



Wilson - You better  
investigate our Motor Dept  
see if we can't get some  
stuff less than cost.

Bachman Keep Rogers at  
work for getting tubes out  
Grids & new ones in & see  
how many times - also  
penetrating out needles -

Paul  
Send Earliah

Frankfort  
Photo ask for  
us

Wall Walls Miller

Ediths Walker Com  
Next season Chicago  
Opera - get even

Wilson, consider roots on  
Disc Machine & what was  
got for the machine California  
disc machine part - think  
should mention it in correspondence

Use fine sand, little Carbon  
granules. Coarser than common  
& have all (rock) surface white.  
Check these tools to determine  
for them telephone -

Possibly Volume increased by becoming  
the number of reflections in diamond  
to some time using glass to determine  
friction due to whig hater Taper

Feb 20 -

H 60	-	Loss	11.81	each
80		Loss	12.00	
150		Loss	1.90	
200		Profit	14.15	
250		"	26.00	

X		Loss	3.04
VIII		Profit	1.64
V		Loss	12.00

Profit Remainder 440 -

20	250	520
20	200	283
-		<u>803</u> profit

30	150	57	803
40	80	480	<u>537</u>
		<u>537</u>	profit

X.	40	Loss	120.	32.80
VIII	20			
V	10	Loss	120	
			<u>240.00</u>	
			32.80	
		Loss	<u>207.20</u>	

38	164
20	20
<u>20</u>	<u>328</u>

140

100

5493

21972

4200

3019

1181

5493

2197

1490

596

208

125

99

26

2830

7077

4500

2086

241

3767

1507

5274

1200

440

664

2424

661

5395

1360

544

7884

20

3720

1415

2830

~~Write Words of changes  
of Cooling Machine &  
prints down too low~~

~~Extra Hand a soft  
Pitch to get Remplack  
to load Vapour with  
diminish contraction~~

Walter Miller

See what you

can get Sample

Record of Office

Metzger, Yonkers

Contractor - send to

be good -

6103

~~What about Fresh Volume~~

~~Moors - Vapour water in it~~

~~get Coal for pitch  
up, down, Benzol or  
Chloroform~~

~~Use of Cooling & dehydrat  
a long time spent being  
on full operations  
in Room -~~

~~In Eng for Remplack  
necessary - show the  
use something Carbide  
or other fuel put in  
industrial to also  
fine water of firing~~

6143

My brand so folks will check  
 handles of if not possible st. be  
 adles on high rates to ~~be~~  
 Val of high give low rates in  
 chance, High too much volume

Walter McCles Can you  
 get local account Julia  
 Culp & Orlin McGee,

30g<sup>rama</sup> Varnish to 1 gram of 9/4  
 end down -

Save Costs Total 223.87  
 100% Return Reasoning of 17.5% 10.  
 Grinding 3.74  
 10% Profit 7.54  
 20% Cost 2.64  
 1200 lbs to mix 59.99  
 Labor assumed 1.44 kg per mo  
 Recovery 11.04 = 15% 36.37  
 12000 9.12 16.87  
 Labor assumed 3.25  
 Addition to 100 lbs 19.07  
 Recovery to 100 lbs 21.15  
 Assumed 8.9  
 29.8  
 Properly 14

Cost no overhead least 15% of sales

		27.15	38.01
#60	30.19		
80	37.67	33.15	46.41
150	54.93	48.34	67.68
200	61.61	54.72	75.90
250	70.77	62.28	87.19
X	13.60	11.97	16.75
VIII	14.90	13.12	18.36
V	37.20	32.74	52.08

\$60	Loss	8.01 -
80	"	6.41 -
150	Profit	7.37 X
200	"	24.10 X
250	"	38.00 X

X loss 1.75  
 VIII  
 V

In Yarnells see ad  
 dealer Hoffman  
 215 Foreyth St

Food Elec 1475 Lbs  
 No one in it  
 18 @ 20 miles  
 80 Miles on 36 3/16  
 Tube Cells -

Disc no	Wt	%	order Miles	Wt Miles	%
100	12406	54.45	12406	40.0	
150	5567	24.50	2350	26.4	
200	2374	10.40	4748	14.4	
250	1649	7.20	4122	12.9	
300	719	3.13	2157	6.7	
		31783			

Average percent (red) 69.9 cent



new idea

check still more  
 vary permeation

+ work done in check

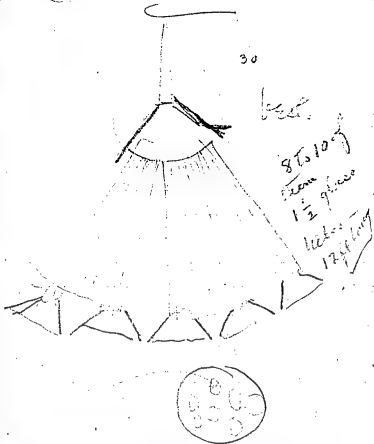
Let's see what we can do with the  
 whole thing. For many years we've been

Moore - Print - 1.0 - 2. cellulose  
 without a vacuum -

400 867 in no  
~~Dale's Fly  
 Blue Ambrat Sales \$ 85509  
 Cy Machine \$ 35387  
 Disc " \$ 191329  
 " Record \$ 45917  
 Total \$ 357.145~~

Edgad fix idea

Use paper cordage to  
stretch it, powerful  
Berm 1/2



~~Better the stone  
covered -~~

~~test pierce 2 seconds  
made with 1/2 of Cor was  
funnel -~~

Dead cost March 16. A4 without  
Selling, interest on bonds, rent, advty  
or Experimental

	7.14
Service	32
Ready to ship -	<u>7.46</u>
A6 -	10.13
Service	48
	<u>10.61</u>

~~Wally Wally Cannon  
get voice trial  
M. Arguente Sullivan  
Columbia St Row~~

Rig up Chem Lab quad in  
Dodd's old place for  
Testing all disc materials  
& pass lots by Cars.

Working ~~to~~ groups  
plates 7.0 & 4.1

Do any of ~~transfer~~  
men make quad's?

Better than ~~transfer~~  
2.4 transfer ~~plates~~  
2.2 2.1 2.0 1.9  
2.1 1.8

Since 70' ~~shiny~~ turn  
a 9.6 ~~net~~ ~~shiny~~ on  
little

Edge ~~transfer~~ ~~transfer~~  
So little ~~transfer~~ edge

Diaphm secured at Edges  
Masks very small 3/4 or  
less than it need not be  
Abashed very light & also  
that not affect it so much  
Get right internal ~~transfer~~  
Leventin ~~transfer~~ be great

Moore, about of steam, just  
water on full than about of ~~transfer~~  
& hot being steam handles  
then can be determined by  
a small hole of ~~transfer~~  
definite, ~~transfer~~  
water ~~transfer~~ ~~transfer~~  
possibly used only 5 ft  
head on ~~transfer~~ - & controlled  
outlet -

If ~~transfer~~ & ~~transfer~~  
then steam will be low  
pressure on ~~transfer~~ ~~transfer~~  
water ~~transfer~~ steam

Answer J. Backus letter

All pressure T&P to be provided  
with permanent opening  
to ~~allow for~~ ~~Coal~~ or  
Valve that has a set screw  
& screw, or reduces or allows  
pressure to a few feet.

Wilson ~~blow~~ ~~it~~ ~~is~~  
Copyright our Press  
some thing they might  
Start to ~~ask~~  
then a we ~~could~~  
Stop them

Put piece ~~rec~~ ~~cept~~  
over plates then  
Coal below

you a why not buy  
64 to make Room  
of ~~Shovel~~

Heat blanket & roll rollers around  
under press to even it up  
to stop misprints

Experiment on getting ~~various~~  
with lowest ~~harding~~ ~~point~~,  
also with ~~small~~ ~~at~~ ~~conclusion~~  
& increase ~~contraction~~ of  
blank so both same.  
Get good ~~man~~ ~~on~~ ~~this~~

Put another good man  
on packing ~~powder~~ ~~for~~  
blank to stop misprints  
& Even up ~~Wounds~~ ~~to~~  
solve misprint problem

Extra piece on ~~radio~~ ~~lamina~~  
like hi head ~~clap~~  
around



Shoreland mix and paint  
+ get top batches all  
same a lot before using  
to stop extra irregularity  
+ keep from cur -

Charles' Costs, Blank casts  
without labor 3.5¢ cents,

Varnish 2.18 Cents per record  
1209 per plate flowed no labor -  
Cost per record 10.9¢ cents  
Labor  $\frac{1}{10}$ th of Cent.  

---

11.31 Cents 16 for Varnish

Blank labor including elec. in  
+ water, about 3.71.  
on good daily production,  
or 7.25 Total per blank -  
without water + steam 3.25 cents.  
Steam + Water .41 cents  
= Grams supplies 37.5¢ per day  
no credit for copper -

1.67 per blank for Moulding  
1.37 labor on Materials -

Cost flowing plates: 366 of  
a cent per plate, .0732 cent  
per record

Cost washing - .0732 cent  
per record,

Inspection of blanks  $\frac{8}{10}$ ths of 1 mil.

Charles' Costs, Washing  
2.12  $\frac{1}{100}$ ths mils  
per plate - this figure is absurd.

Over 1.25 mils per plate  $\frac{3}{4}$  mils  
per record -

Severing cleaning a  
unpeeling plates 1.58  $\frac{1}{100}$ ths  
per plate -

Transfer Press <sup>prints</sup> Payroll	197.91	say
Inspection Records	12.57	"
Filing in records	7.75	"
Memberships	3.65	
Testing "	24.79	
Moulds, weapons etc,	57.27	
Buffing	11.96	
Edging	25.37	
Grafiting	4.50	
General Exp payroll	72.42	
Repair celluloid prints	15.85	
Metal Mould repairs	10.06	
X	3.00	
X	9.17	
Sending records in boards	11.35	
Grimes	72.00	
Num. dics plates	16.48	
Grimes a plates	<del>14.50</del>	
General labor +	} 151.00,	
Materials + supplies		
all over plant		
Repairs - steam	630.99	
+ Current	37.56	
Grimes supplies	668.55	748
Behind Printer	50	

Rough		40% quality
40% net	Cost 62.8	100%
50 "	58.6	114
55 "	57.1	119
60 "	55.8	127
100%	50.20	122

Blank + plates in X-ray  
Room about 11 cents.  
Value of returned blanks =  
5 cents

150 Records per mould  
90 net  
Cost of Working moulds  
Materials not credit for  
Copies in \$2.331  
Cost per net record  
60% basis 2.85 cents

This new item costs ~~100~~ per  
add 4c to Cost at top page  
(155)

~~See Wilson & Maxwell on  
20 copying report to  
Conner & Kelly & Mac & Blom~~

26) 300 - (11) 11000

260  
40

110  
22  
122  
40  
1620

1220  
488  
1708

1140  
4-440

Recovering 100 AH cells  
 Save cans & Tops

Grinding	3.74
10% loss Rubbers parts	7.54
12000 tubes only no Ni	59.99
20% loss of cans	2.64
Labor assembling Ni (49¢-100)	1.96
Recovering Ni hydroxide effluents	544.72.19
12000 (10 gm) packets only	16.84
Labor assembling iron (65¢-100)	8.25
Addition Iron mix 24000 gr	19.07
Recovering iron Sp Topkt 5¢	10.57
Assembling Cells	8.69
Electronics	29.00
Shipping & return	14.00
	<hr/>
	188.91

No factory or local exp  
 included -

40% 2,63.91

Assembling Rec. - Others (Rec)	March
Wght 583.	533
Cy Mach Rec Discm	Discm
49.524 511.974 - 3281.535	575.334
Total Shipps	547.917
Shipments	507.953
Stamps	113.64
Commit Shipp	14433
	13482

	357
	72
	140
	585

5 - Phenol  
 2 - Pan  
 719 S/4  
 4 - Penda  
 100 Resin  
 145 also

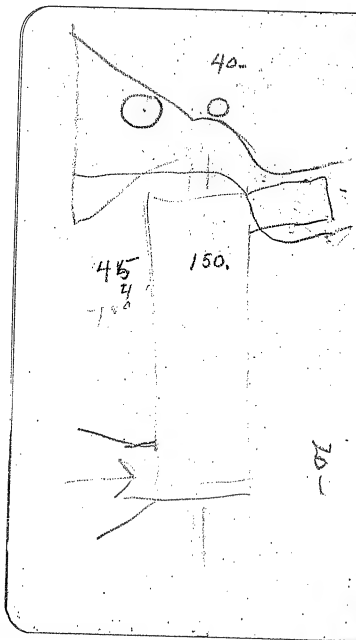
Cost blanks 11 Cents  
Return worth 5 c

Payroll supplies equal  
\$748<sup>00</sup> day

Reeds - Cents	Talent
2000 37.40	12.00
2500 29.95	11.00
3000 24.91	8.00
3500 21.38	7.00
4000 18.70	6.00
4500 16.66	5.43
5000 14.96	4.86
5500 13.61	4.43
6000 12.64	4.00
6500 11.48	3.73
7000 10.68	3.47

Scales - at rate of - *unlike*

\$ 3846	\$ 100.000
5769	150.000
7692	200.000
9615	250.000
11539	300.000
13461	350
15384	400
17307	
19230	500
21153	550
23076	600
24999	650
	700



300-

$$36 \overline{) 80} \begin{array}{r} 22 \\ 72 \\ \hline 8 \end{array} \begin{array}{r} 22 \\ 32 \\ \hline 66 \\ 66 \\ \hline 0 \end{array} \begin{array}{r} 775 \\ 77 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 36 \\ 180 \\ \hline 288 \\ 36 \\ \hline 324 \\ 640 \\ \hline 640 \\ 80 \end{array} \begin{array}{r} 81 \\ 81 \\ \hline 0 \end{array}$$

$$27 \overline{) 17750} \begin{array}{r} 649 \\ 1620 \\ \hline 1550 \\ 1550 \\ \hline 0 \end{array} \begin{array}{r} 64 \\ 64 \\ \hline 0 \end{array}$$

$$1475 \\ 300 \\ \hline 1775 \quad | \quad 6$$

$$70 \overline{) 2000} \begin{array}{r} 28 \\ 140 \\ \hline 600 \\ 560 \\ \hline 40 \end{array} \begin{array}{r} 27 \\ 27 \\ \hline 0 \end{array}$$

[165]

**Notebook Series -- Pocket Notebooks  
Notebook, PN-14-04-13**

The dated entries in this pocket notebook are from February-July 1914. The book was used by Edison to record ideas about business matters, experiments to be tried, and other tasks to be performed. Many of the items have been crossed out. At the beginning of the book are notes about phonograph orders and costs. These are followed by experimental notes relating to disc record development and production, chalk telephones, battery cell regeneration, and automobile batteries and charging stations. The business-related entries include notes about payroll and expenses in the Home Projecting Kinetoscope Dept. and working shifts in the Cylinder Record Dept. Also included are entries pertaining to record dealers and recording artists. In addition, there are notes about sales of Amberola records, kinetoscopes, and batteries, along with comparative data regarding the costs of using Edison batteries and those of competitors.

Among the numerous Edison employees mentioned in the book are master machinist Robert A. Bachman; John V. Miller, Edison's brother-in-law and manager of the Edison Chemical Works at Silver Lake; Walter H. Miller, head of the Recording Dept.; Sherwood T. (Sam) Moore, a principal assistant in the development of disc records; and Harold H. Smith, chief of the Battery Research Dept. The inside front cover is inscribed "Entered final April 28 1919." The pages are unnumbered. Approximately 125 pages have been used.



PN-14-04-13

E-1710

My  
Cave  
Final  
516151919  
Cave  
m


Phono for March  
orders

Cylinder Machines	49.824
" Records	111.974
Disc Machines	281.535
" Records	75.334
	<u>518.667</u>

Thank it 547.917  
Cylinder records 533000  
Shipments all kinds 507.953  
Sales feby 357.145

Storage Bat.

Orders	shipped	assembled
11364	14433	13482

Present Coffin with Phono

1 Week March average price  
need for record disc 69.9  
Months of March — 59.  
7 weeks to April 5 @ 3.3

Theoretical amount of  
 steam required for 814  
 pressure 22 hours  
 35000 lbs of steam  
 1363 lbs per hour  
 50 HP boiler Evaporator 15 to  
 sections

Dead cost March 16 A4  
 without selling, interest,  
 rent, advtz, or Experimental  
 7.14  
 Service 72  
 7.46 - 810  
 with selling

A6 10.61.

Feb 20 - Costs given ma

No 60	loss	11.81
80	"	12.00
150	"	15.00
200	Profit	17.15
250	"	26.00
X	loss	1.12 now
VIII	Profit	1.64
V	loss	12.00

Wks cost 15% profit To work	without 15% profit	40% gain
Cost: 60	27.15	38.01
80	33.15	46.41
150	48.34	67.68
200	54.22	75.90
250	62.28	87.19
V	32.74	52.08
VIII	13.12	18.36
X	11.97	16.75

Get records Pieman made  
with glass funnels.

Get last 2 months antenatal  
records for Tades.

W Miller get voice trial  
Margaret Sullivan  
Century Op House

Rig up test rig, decide on  
place test everything &  
daily reports.

Wilson shouldnt we so paying  
our Doc Tunes as arranged  
some day the well Sub  
Them,

W Miller. Why dont you  
work in Xyle in area also the  
Violon sawing holes to go  
after - Best Monday in our house

Put bland on heated  
platen or hot roller under  
heavy pressure and  
roll them to size.

Experiment to get varnish  
lowest hardening point as  
to temp - + small contraction  
put a good man on it

Put good man regularly  
on improving grading  
powder in blank models

Put extra piece on Piemo  
hammer

We should mix at least  
Ton of Perite get rid of  
variability

Wood pulp seems to dry to  
 even mould even, think  
 should put on unaged  
 on mixing powder with  
 it & cover on  $\frac{1}{2}$  of  
 $\frac{1}{8}$  wood, using resin  
 of phenol just same

Free-Saleman provided with  
 oxide, iron clad & our plates  
 to describe feasibility of  
 rubber & lead & mix coming  
 out in oxide - got agreement

Bachman in various pockets  
 Iron will get in  $\frac{1}{2}$  way get  
 it out. Can't use magnet

put man on Cushing  
 Zinc is for buy/batter  
 like Mercantile, type  
 are cast. also smaller  
 man + Reusch returned

Calliper comel records of Meyer

187	200	193	180	020
232	233	244	242	017
244	238	251	260	022
221	240	227	204	036
241	236	231	233	010
241	224	232	248	024
235	226	227	229	009
246	248	227	231	021
241	210	221	223	031
237	237	245	244	008
233	245	233	216	029
224	232	232	220	012
212	227	221	207	020
243	235	214	224	029
207	238	207	200	038
198	212	190	177	035
247	227	208	204	043
243	245	246	246	003
237	227	227	232	010

Thicket 260 thmist 177 088

from average of thmist  
 thmist we have  $\frac{53}{100}$   
 to true up minus. thmist

acc of Hydroxyapatite  
will reduce  $n_i$  on surfaces  
of particles,  $\gamma$  amount  
do away with plate  
Or Load tubes + have  
soak in hydroxyapatite  
several times -

Load blank mold, then part in  
Rebar 1" thick + force  
Cold, then soak in  $\gamma$  bp  
whole in  $n_i$  +  $n_i$  +  $n_i$   
several times + then mold  
Regr  $\gamma$  bp, also

for making subcooled  
flow Reg for in  
Metal, flameable rim  
Don't go above 160°  
or there at high temps  
only going to subcool  
condensation + not to final

289 ~~1000~~

Keep in dead clean oven  
Water Bath to hold 80. to 100  
Point on this at very low  
pressure. Think it will  
profile OK. Can vary to  
but use Paralite to  
maintain the metal in  
plateing - Think this will  
be at cellular

Disc white black.  
bp scale should not  
be used only bottom  
of the scale (Chelle)



Press celluloid Cold with  
Para naphtha 1" thick  
piled to wet like  
Water & then turn  
it loose & strip -

For turning blanks  
get big piece wood  
& turn  $\square$  2  
Edges right angles  
for  $\frac{1}{16}$  to  $\frac{1}{8}$  across  
for scraping in  
dial the the blanks  
using say 20 threads  
feed

Get all the Wentons  
all opera & every  
other one &  
& select all possible  
should have 50 -

Grill for Disc only of salt  
with house, ~~XX~~ come on it  
or one with ~~1st~~ used on  
Disc box - support  
grill below -

Chalk (talcum) may  
act as a satisfier  
Dry it with alcohol  
ice cream - also  
try plus soda & salt  
Phos K 1

Apply Varnish  
wood pulp like  
Ford paint.

Walter Miller  
Feldman

Try single homogeneous  
wax with very thick  
layers on surfaces -

~~Cabinet, Kaminetti  
use desc. & connect  
& Cook at 1700  
apray -~~

Front 2 Cells with  
Wax 40, Wash out  
& bread wax acid  
1%, hot 2% H<sub>2</sub>O<sub>2</sub> +  
beal

~~Leaving from grade  
was about~~

~~Walter Miller~~

~~Willy Bergmeister  
glt. burn~~

~~Berwick in Cuba now  
500. song 10 song  
40c. very ally~~

~~See - got over battery  
tested & accepted by  
Dac. (this instrument)~~

~~Instead 5% more channel  
make it 10% less~~



~~ask of V.M. if he has not  
a rubber mallet at  
Chem. Wks -~~

~~Recognition -  
dry in water, rice  
like & no flake  
with soap, nickel  
both with ~~ammonia~~  
acid break down  
a various acids~~

~~Take from plate  
and~~



~~in culture & nick 1/2"  
long thin ~~crystals~~  
& print on ~~microscope~~ ~~slide~~  
piece of ~~glass~~~~

Process

~~Want  $\times$  roughened  
this~~



~~Even~~

~~Found a figure Alcohol  
Acetone etc that  
Chloride  $N_2$  is insoluble  
Chloride is Sol then  
break old in ~~fructose~~  
tubes -~~

~~$NH_4$  form double  
salt with ~~Chloride~~  
& bromine sol water~~

~~also at Sol in ~~Barium~~ ~~etc~~  
Sol in Ethylene~~

Ni Sol used Al or Al<sub>2</sub>O<sub>3</sub>  
Ferric Sol Sol. all to print ~~at~~  
from Sol is the only  
Known Sulphate Sol in alcohol  
Solubility must not be low,  
with hence must use strong  
Sol. with the dry Ni  
possibly just Sol in alcohol

Sulphate Alumina insol  
in Al, Sol is easy in  
water. Use Sol of Al<sub>2</sub>O<sub>3</sub>  
not Sol water are  
Sol in alcohol used

Dilution Al<sub>2</sub>O<sub>3</sub> into water  
to make basic sol.  
Ratios -

### ~~Ammonia Lock~~

Al Sol + NH<sub>3</sub> (Alumina) Sol used  
but pp on dilution

Sulphate Al + Ferric bases  
Easily Sol in cold dilute  
Sol deficient Sol in  
dil. NO<sub>3</sub> or HCl.

Sol Al + Soda very  
Sol K not very

Find out if old  
Ni Sol used was  
precipitated by  
not precipitate

Dry 2 or 3%  
acting to clean  
open old mix  
Ni

Sydney  
at 17.3 ft P per ft Neg

12400 ft Neg at low down  
grows 176 lbs ft sales of P.

~~Why change pipe & cable sizes~~

~~Put profiles on calculator  
by 2 point running in  
19.100 - or 19.1 -  
of 1/16 in. profile  
press it in  
or Roll a roller over  
or~~

Go over Optics profile in  
Part of Profile -

~~Moore in transition  
do. may watch when  
beam put in & keep  
it 500 lbs press or down  
it go down then they  
pull it back & see  
they will get it release~~

Walter Keller & co. will  
on wax perpendicular  
holding Reels up  
by lower opening  
or a bell hanger  
weight

for turning old Kodak into new  
Muller's soup @ 94.98 per  
1000 lbs. Kodak & clear anal.  
28 cents A4 - no glass  
or peccat,

Find out who  
owns persons cup  
stuff. Makes discs  
Look under record  
all of fine enough

~~Find double check  
weighing of Wisconsin  
for Paris -~~

~~Give money to Seattle  
pay de...  
R... ..~~

~~Daily foray. Dried  
Vermont with very  
fine. Boston colonel  
alcohol - dozens  
try -~~

~~sent &~~

In Victor just look  
up my old application  
on Disc several yrs  
ago before I started  
on new disc. also  
old English patent  
& searcher also his  
& genuine photograph

~~Why Cant Cylinders  
Record Supply  
work days  
only - We have  
Extra Capacity~~

~~raise Bakery Laws  
now set up &  
put to work~~

~~Stations checked out  
We sent them -  
Chain of stations -~~

~~See summary about  
New big base  
Clothing~~

~~Christopher Brown  
for party more~~

~~figures sent given  
away speaker names  
of buy 12 records  
Cy 55-40 off for each  
also Graham old Customs  
get list of sales last 8 yrs for  
find out how much~~

~~Lothar the Mewach  
got my name~~

~~Take up Wilson  
Program Bakery~~

~~Consulting~~

~~Arvany a lot double  
Checking Bluffman~~

~~"Home again from a  
Foreign Shop."  
Put on Dixie -~~

~~Wandering Refugee,~~

~~Old Dog Tony -~~

~~Ask Smith for Grow  
Rains~~

~~Smith has an old fz  
box take but dip in bag  
Let cook. Break  
till left 1/2 out - also  
out where warm a  
Let it self heat -~~

~~9 1/2 Miles send up dog~~

~~5 pm snow & wind  
dip in forest out soon  
get Praso - porro etc~~

~~Tell Hays don't  
avoid too many  
Cellulose desc~~

~~disturbance wax  
tracks blank  
Cabin was it~~

~~Get smooth surface  
plates & then  
make apparatus  
scratches fairly deep  
& test Fe Co SO<sub>4</sub>  
RO.~~

~~Try Duponolium  
with new lot of Co  
with 6% or less  
acids etc.~~

~~J.V. Miller 7 gram  
Cokes of old Fe  
Ridmex etc.~~

~~Make up 8 lbs  
Regni with wells  
Cone Ehl. SO<sub>4</sub>  
Soaked 24 hours  
& very little Fe Co SO<sub>4</sub>~~

~~After NaCl SO<sub>4</sub> dry  
Soak for 1/2 of Co  
& put up 2 x 4  
Cells for long  
Enderman~~

~~Put up 2 x 4 for  
long Enderman  
with Fe only  
Crumpled~~

~~Moore flow 1/2"  
blank 45 cc dry  
at 120 for 15 hours  
Open flow 2nd  
Coat dry 24  
hours~~

Walker Miller  
Only London get a  
Voicerial of them  
in mean low oil  
Covant of 1000  
Name of Sulph  
Or 4 mi -  
up good forest  
find what he call  
seed 6 or 10  
songs for -

Sent to Fost for  
Grants with lamp  
Lamp -  
my Ke lamp  
split lamp

BaOH / Dis always  
Admuna - used in  
testing - try old  
N. O. E.

action of Sulphur  
on Amine oil  
L O O grows Resins try  
Resins for Varnish  
feller & Wax  
succo -  
also 5 on other things

Palat Lott  
1-091-192

rough test various  
heat algebra with  
Tivis is not of success  
at 220 but not 9 samples  
on cooling not sticking together  
inherently after 15 hours at 225 Cent  
(3)



Dry - Enough new green  
equal 10 long tubes  
to 1/2 phos acid  
1 5/8" measure of  
1/2" liquid mix of  
1 1/2" just wet -  
+ none -

Patent new  
Bailey Gate

Make ball 3/4"  
dia radius for  
Recorder's atop  
Drag

Note to Anderson  
A Co sell battery & Vehicle  
Complete for nominal  
money  
She had a guarantee to  
buy from ESB Co guarantee  
battery for 4 yrs & also  
a renewal of plates & supplies  
& Electrolyte guaranteed  
for another 4 yrs. for  
leaky cells & replace  
them over a period of  
8 yrs - The whole cost  
from date of purchase  
of the Vehicle to end of  
8 yrs shall not  
exceed \$2000 - dollar  
per year - only cover  
8 yrs Boston Chicago Phila St  
Los Angeles Buffalo NY  
washed - 6 yrs  
Cincin Pittsburgh Seattle

As memo  
1 = 30,456.47 accuracy  
to be  
out above

Babson buys  
Oct 1913 to May 1914  
327,000 Ambaral  
at a total of 3,508,000  
10% -

Bushman made  
3 or 4 calls 505 papers  
for Green -

Put thermometers on  
ovens test accuracy  
of the recording them  
also. The Univ. approved

Anderson Camp

Silver Thread Tree

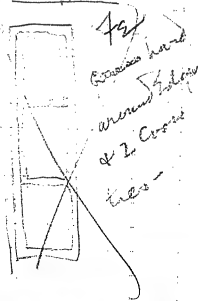
course level asphalt (Parkway) - Weather clear Dry

Temp 85 @ 90 Fahr Windy Course 2 person 400 lbs

54 A & 2 down Open Valves 78 at start - Amphibately  
at level 216 - finish 160 -

lbs sprayer pump	Watts/Ton mile	MPH	Volt	amp
80	92	18.2	67.3	50
70	91.5	18.2	66.8	50
60	94.5	18	67.3	50.5
50	98	17.6	66.3	52
45	100.5	17.4	66.3	53
40	103	16.9	65.5	53.2

~~Great lat req in alone  
 another part. 6% Sulphur  
 just w/ 200 lbs 12  
 smaller 24% H<sub>2</sub>SO<sub>4</sub>  
 Wash this dry + save all  
 + send over to Lard +  
 get leading 100 +  
 Comp. over.~~



~~Do w/ test Slates  
 Rubbed~~

~~Make in powder  
 Keep at or 170.~~

~~+ also lat below 130.  
 Make blinks + see  
 if Condensed or  
 non condensed is wanted~~

~~shouldnt we  
 use thicker grids  
 for 72 to allow  
 drop + spread~~

~~Simpson - filled  
 He all that goes  
 W/ 20° baking oven  
 chimney~~

Payroll -	Mechanical
Oct 460	38
Nov 401	16
Dec 401	36
Jan 257	29
Feb 846	808
Mar 709	13

Treat some ~~res~~ mix.  
with Sulphuric acid

Smith H al Fe  
that wont come up  
but only electrolyse  
washed trial 6 1/2  
503

Get some Red Fe from  
Silver (also try  
reduces on it  
Hydrocyanic  
K Sulphate etc in  
H<sub>2</sub>O & also NaOH,

Make formaldehyde  
salt of organic alkalis  
not vegetable like  
NH<sub>4</sub>

For chemical to an electric  
lot no penny 2275

Normal wt with Eng 1750  
weight Eng 475

52A4 (14.5 in)  
Motor gear 250

Made 53 miles  
around town 2275

~~Walter Miller allows 4  
blanks don't track  
Dinner table plate just as  
if throwing waste  
deal with~~

~~John Hester <sup>1 doz</sup> doz 1/4  
track 1/2 doz 1/4  
Dinner plate to flow &  
deal with <sup>now tracked</sup>  
blank reports~~

~~Should total to <sup>1/2</sup> info  
now till apr 11 1949~~

250	9528	98200
200	8227	6700
150	11428	83400
		\$ 2,473,000

~~Walter - Dave Ernie  
print on New blanks  
1 q.c. waste than 9  
blanks <sup>1/2</sup> regularly  
for the B test prints~~

~~Moore we will make  
a test procedure schedule  
to Condenser in Voco  
Chamber -~~

~~400. Condenser record  
+ notes and experiments~~

June 10 Notes  
 Originally 255,000  
 Reduced 107,000  
 Outstanding 148,000  
 Due in July 48,000  
 Aug 45,000  
 Sept 25,000  
 Oct 30,000  
 148,000

Make enough Var to flow  
 1680 plates, with 10% more  
 6/4 sec of Cant stop blisters  
 We once made double transfer  
 OK now they cook something  
 changed w/ varnish

Dally = Make some mix of  
 with bag powder of chalk  
 to limit dirty, clay, heat  
 before hand

Smith acid over the old Ni  
 tubes & millwakes

Ott, remove the Hypo  
 Ni & will separate the  
 flake

Put up 6 tubes new Ni  
 old flake run for  
 endurance - ditto  
 2 A4 for long endurance

Treat Reg 7 $\frac{1}{2}$  mix with  
 Sulphuric acid  
 Miller make 4 test  
 Iron's set of better than Reg

Moors about ~~resting~~  
Cracked discs ~~→~~  
2 quots -

Christinson to make a  
651 Wax disc soon as  
possible - or couple  
Cylinders for Walker  
Miller to test with -

Try Experiment with a  
reproducer having a ball  
(Daphne) Exact dia of  
a wax cylinder record  
to see if we can smooth  
down chatter marks on  
Reg + 651 wax -

Investigate the Record  
that Eleven of the other  
10 Cracked - This is 20%  
of all printed - it may  
be ok as we get 20%  
of prints made cracked

Hurry Smith on those  
Fe plates I want to  
break with Sulphuric  
Acid -

To get 15000 daily  
9% blanks (equ) 30000  
transfer plates 45000  
transfer quots 25000  
print 85 21000  
total 15000



Find from Moore how  
many presses we have in  
Each Dept, for net 15000

Want 42 Blanks  
43 Tramp  
40 Print,

Then see ~~Moore~~ for long  
Credit on a Contract  
for more presses -

Also look up other  
devices for increased output.

Nowhere

21 Tramps  
14 Print #4 flow  
18 " #4 "

27 presses to Company  
5 more to make 32 blank  
Wants 10 more presses for  
for Tramps & Print

### Daily flow plates

1 = Stomper = Spray & blow - keep  
blowing then spray & blow, say  
4 to 6 papers - Can do this long  
washing

2 = Put plates  $\frac{1}{16}$  or less apart

3 = Steel plates -

4 = Use old washing feed Van by  
a screw feed Cone pulley or  
Cone friction so same surface velocity

5 = Van very thick dump in center  
& spread with spreader like  
blank loading powder

6 = flow rate to fire burn off  
'blasted'

## Dally

7 = Ask W.A. if can make  
Condensate plates - use direct  
or plate over -

8 = Quicker, no plate (begin on  
surface -

9 = Mix water with normal cell  
to a white precip. then flow on  
spread -

10 = Possibly with water to  
precipitate could get stuff through  
sheet if using minimum alcohol

11 = Might need 1/4 Rem. + more  
with water, if from a slough  
possibly best with alcohol  
& roll by sheet Vase

~~Christmas buying the 2 cylinders  
resid. 651 for Walker Miller -~~

~~Smith & Jay forming at different  
Change rates 2 cells each 14~~

~~Chy normal -~~

~~1/2 normal~~

~~1/4 "~~

~~1 1/2 "~~

~~2 "~~

~~3 "~~

~~3 Run~~

~~note view  
particularly~~

~~Also small Cell 7 1/2 4 2 1/2~~

~~1/8 normal~~

~~1/4 "~~

~~1/2 "~~

~~normal~~

~~2 "~~

~~4 "~~

~~Test for 7 1/2~~

all directly normal

~~Sulphurated oil for  
mixing with Varnish -  
Red oil - Capton 100 pts 30  
H<sub>2</sub>SO<sub>4</sub> -~~

~~Powder up some old fire  
residue with Tin Chloride  
dills red color~~

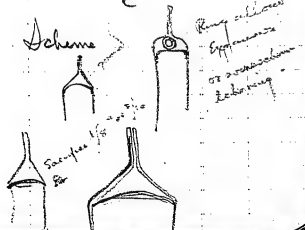
~~Loading 4 units  
& sets Lamp for trials  
unit for~~

~~Discs - first after  
units up at  
lamps~~

~~Scraper - 12 inches  
Mounted Cast  
iron base -  
& shell platform~~

~~Base~~

~~Back in after coating  
hydrals are now set  
at lamp~~



~~Backman - Check test for  
Mordax N. O. before using  
low 212 = falls~~

~~Moors - Check to examine  
of Mordax, etc for  
filling out 1.2"  
K. of ...~~

~~test low ...  
Plains or ...  
surface plate -~~

~~letter to ...  
saying that they should  
take ...  
of ...  
defective ...  
to ...  
as well as another  
to replace it~~

~~Learning a Watch  
Mordax into Cellulose  
in Cox's new ...  
Everything ...~~

~~Get ...  
Phone ...~~

~~W.M. Some of SO<sub>2</sub> ...  
2 pks powdered ...  
100 3 ... 150,  
2. 150 -~~

~~Get ...  
The 200 ...  
at ...  
Hays about that ...~~

Turn up ~~fold~~ discs +  
clean it up

Hear all the ~~discs~~

Just 5th, trial to group  
only 9.40 of 4/4

Form non smooth receptable bed  
in place - press over perforation  
to hold in case collection  
solidum

Ascertain if ~~the~~ is forward in  
collary

~~Class~~ - 2/1st  
Class new ~~Disc~~

Employed above  
Classiment -

Walter Miller - Upright to press  
London if there cant or  
Vanderbilt says that  
is an imitation of Henry  
Lauder with the same  
type of voice -  
if to get trial of some  
of Lauder songs -

Press all hand with Rubber  
+ turn tone -

Get Ingram's ~~play~~ all  
the ~~books~~ -

Try Chalk Telephone as  
Recliner -

Cabinet ~~Disc~~ X  $\frac{1}{4}$  thick  
Load with Rubber - get side  
+ make mould -

$NH_4Cl$  forms a double salt  
with  $Al_2O_3$  in a sat. sol.  
water - say add  $HCl$  with  
this -

$Al_2O_3$  sol in  $BaCl_2$ , to use in test  
also in  $EtH_2O$

get 1/2 Miller (and up  
1 doz) 5 gm flag for  
want to dig in usual  
and like  $BaSO_4 - SrSO_4$

Patent Steel battery  
when received



to protect only  
wires steps

~~Bachmann~~ should not use  
thicker grid for Fe.

	labor	material
Power's Oct	460	37
Nov	401	16
Dec	481	36
Jan	257	291
Feb	846	804
March	509	13

June 10 notes

Originally 255,000

Reduced 107,000

Outstanding 148,000

Disb in July 49,000

Aug 45,000

Sept 25,000

Oct 30,000

We once made double transfers  
now we cant without looking  
something changed in Vermont  
tell Para. - perhaps 6/4 why  
by now

Put up 4 tubes new 715  
old flask + run heat  
long insurance

Presses on hand

21 Transfer

14 Print 4 flow

18 " 2 "

27 Powder 5 more corners

Sulphonalad Oels to use  
with Var Turkey Red oil  
Costor 100 fl. 30 204.524  
Sulphonalad "

Moore - what happens of  
12. press ~~cellulose~~ results  
ordered some time ago

Maxwell about letters to  
Dieters about ~~press~~ get  
Copy

Get daily physical and phone  
Dept ~~with~~ success

W - down all down some  
old 75 to 100 to  
powder thru 100 150 +  
150 10% new 27 gram  
flts

Keays about that bad  
replies -

~~Mr. Cleve's Dugston cold  
38 Victrolas in 400 minutes  
incl people ~~the~~ walking to  
do ~~the~~ rest~~

~~Think powder is too fine  
or varies ~~and~~ think whole  
trouble is too much gas  
in Vane from lack of 6/4  
or too much + too plate  
+ that this must be  
corrected or blank made  
more porous by less  
pressure or coarser powder  
or more compression~~

~~Look out for fine powder~~

~~pick out 300 or 400  
plates flat + not  
Concave + other marks  
Convey + blow back a  
transfer~~

~~Ask Dalley How bubbles  
are on blown plates -~~



~~Close all  
round as  
circled by  
to float~~

~~Long section fan to  
take out~~

~~Get pay roll Disc  
Dept~~



Wilson Learning ~~Book~~  
down on ~~amb~~

Make up a schedule  
on Amber slab  
now — +\$80

Trick Ball games  
Movies —

of the novel Vallets  
Certainly fine print  
Master & 2nd Master  
& Wax Mysteries inspect

Treat old Ni with Ndy  
also Ndy & Ndy 50g  
also — Ether — Alcohol  
Benzene

Enter in book Disc

Blank  
1000 from gold Sunday  
900 " " " " " " " "  
600 " " " " " " " "  
Must check to 1000

Experiment New Gas also  
making double Cracasso  
to trail Rally

Make an A4 with 1 m plate  
2 rows + balance blank  
sheets to get results of  
Cap & Vallets

Also 1 with paper wrapped  
around Ni & Fe Element

Wagon Make several hundred  
blanks, 10% more left

Another lot 18 lbs phenol  
instead of 3000 amount  
of 22 -

Boxes 72 Max forufferson  
Ammonium Sulphate  
powder blank (round)  
to 2000 lbs & repowder  
& test in small tanks  
& if OK in Alt (2)

See ~~Boediger~~ about  
Lithia

Bring up 125/842  
blanks 1/2 hour at  
340 Fahr. Use ~~Trainer~~

Phenol mixed/put out 10  
times yearly at 5000  
guaranteed

Old tube dipped in Cyan  
Coll. washed by  
4 -

Try put in Dec. as trial in  
good Mosaic Easton,  
for even Valf. round &  
flat valve -

Ask Lot 101 look up has test on  
out of Ag in 1000 wash slip clean

Christmas Peaker  
Let clean up Zinc  
& then add chlorine up  
to limit shell

Put under ~~Reform~~  
Shaving table of ~~aluminum~~,  
Lentils a from will  
30 mesh ~~aluminum~~  
cerium

Following K Salts in a lot  
little ~~in~~ water

~~Perbromate~~

~~Perchlorate~~

~~Pertungstate~~

~~Phosphite~~

~~Peroxide~~

~~Piperate~~

~~Perosulphate~~

~~Sulphate~~

~~Urate~~

Lithia Salt

Borax

Fluoride

Phosphate

2 Cells each 4 grams  
Each cell -

Arrange with Leds  
for Cases, weld marks  
moulds in for box to  
store

Shows ~~flex~~ ~~clean~~  
pipes - ~~can't~~ use  
presses need  
bad

Improves ~~Amberal~~  
Pipeters



Some ready at bottom  
but take sides off

Learn about Dr  
for Exam ~~of~~ ~~the~~ ~~cellulose~~  
like ~~the~~ ~~cellulose~~

Get 1/2 doz more feather duster  
Best one on a discard mound  
in hallway 10 to 20 000  
tiny plate mound & brush

See German Cellulose  
maker when he comes

Find out what blocks  
Copper - Mounds

fix Alcohol  $SO_2$   
for Miller  $SO_2$  Sulphur  
dry + Miller Make  
in packets

Dry out 5 for old plates  
+ Re corr but soak in  
# 502 6% - ~~sunlight~~ Fe  
Zero

Ask Miller what number  
of the #503 banded old Fe  
around 100 170 & 170  
Mesh -

Lo burn ground off  
Fe stick packets

Send that 1/2 doz battery  
vrou ~~and~~ ~~of~~ ~~new~~ ~~edges~~  
Crops for test - weight  
before ~~exposure~~ -


Halper about band  
test Gold Dia ~~paper~~  
backed off ~~exposed~~

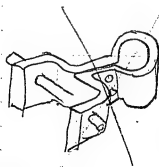
List	
Amberola 10	30 Big 3 No 1
" 8	45 Clock Co No 3
6	60 " No 2
5	80 Best No 3
3	125 Case Disc
1	200 Cabinets

Find out total pay rolls  
 Expenses of HPK &  
 Sales & Sales from  
 & Kelly System see how  
 much of ~~loss~~

Shimony. Why not have  
 Exp of Air blow / annual  
 Co come over & show us  
 or take Cabinets there as  
 our men may be required to  
 sign for it  
 Paint Alex Shimony Van  
 let me see it

Amberola Beat seller	X	30.00
"	6	60.00
"	5	80.00
"	8	45.00
Poor seller use	3	125.00
disc cabinets	1	200.00

Find all smooth men  
 first & then  die  
 Center not touch



Red cell on photo-fung with  
wood fibers or carbon fiber dried  
& dipped Reg. resins Vars  
papers - little wood pulp  
Cylinder dip bakes  
dillo paper second dip dry  
then dip Vars bakes perm.  
Paper heated before dip -  
Long fibre paper

Rec Cost Film House  
Organ - face what 1/2  
The Cost wanted to in  
Administration -  
dites phone

Fry colloidal pigment  
Colors inorganic in  
Base varnish & for  
Conductive Coatings -

~~Buy 100 lb of 50, 72, 90 Ws  
make up 2 pkts  
100 2 of 50 42 of  
150 needed~~

~~Wilson they will know  
about getting our travel  
E. Mend. Report on here to  
Talk over all -  
We also want more information  
than we get~~

~~Commit in Chem Lab  
test over time for  
amendium - important~~

~~Pick out that records  
to be given by Jones~~

Cheaper cost of sequents  
& improve it

Baldwin - Sales  
of Records.

Simplex Hand 300 1/2 20015 - 20017  
Wests 350

Power Hand 260 - 20415 - 20415

- Extra 250 40% 25000

WE have 374 Baltho

Outside of Division  
3 days out 125 daily

Meister - Let us look at  
Lib rate book sent over. (6  
Smith there is 3 or 4 1/2)  
books missing -

Bachman - Have you  
samples of Bureau sent  
full line for every other  
purpose

Old HPK data from  
Paragon -

Newman to use factory  
iron & deposit all a  
Ni strip will be  
with light run down  
deposit

~~Buckingham~~  
Cure old traps  
or changed to  
Boutique traps

2 short tubes  
2 flake 15 grown

~~Put things out away~~  
from ~~to~~ (also)  
travellers

Good all - fix up  
the same to dip  
# A4 plates in  
hot conc NiCl<sub>2</sub>

See if we can arrange  
with the big German museum  
to get some of the  
not much as to what  
we don't know - at least  
they publish & keep -

Arrange with the  
English publication do

Put somebody out  
expert to use paper  
at London's Vase for  
Cheap Cylinders  
recording - or mandrel  
& Seasons, or Collapse  
Mandrel -

Sb Cl To Cl, in Varnish  
delay final hardening  
Very lengthy & tough like other



Ferric chloride acts  
like lime, <sup>transfer</sup>  
will come off easy

Is found ~~factory~~  
on D L & C

Does he give them  
frankly

Arrange to send  
around, monthly  
test of ~~Amberal~~

1/2 doz. ~~min~~ use  
same set + test  
like Hylalok -

Test battery ~~Crates~~

Smith Rich Cobalt  
Call 20 times then  
Req up ~~to~~ to run  
10 times more out  
120 Fahr -

Send, when you  
have exceeded  
2000' let moulds  
run till dry -

See what selling  
plan was ~~based on~~  
by ~~Ken~~

Smith put up 4 Reg 7z  
+ 4 7A 504 7z f

Run Reg. After 1st Run  
take one each off  
soak out, 3 more  
runs another 10 Runs  
another 10 Cold 10  
Heat the Cast Out  
open & note changes

Pick out for Watts Miller  
3 songs each for Brunton  
Baker & Lundy as best  
records - Little Corenalls  
Mezzo & High Soprano  
Cathartans - Alto  
Cello Violin -

Slogan - we have best  
voice and instrumental  
Christians, not solo

~~Try Light in  
delapide~~

~~As our vials used with  
test tubes in previous  
to use with 11.~~

~~Boffman off Saturday  
Also when out till last  
month to check a still,~~

~~Spencer why do  
mounts come up by  
spins throwing repair  
Dept and of Keller~~

Smith - We must be  
using more than 2  
quads. ~~196~~ 175cc in  
shell to call -

Malloy - base talk  
about Koffer - also about  
another chromite prospecting

Results in Calisthills in  
Western

Walker Miller -  
Long 12 quads  
One 10 quads  
3 of them at Base

Fig out max disc  
Some use 7 quads  
for myself for  
Miller

Moore about chromite  
quads - Very bad now  
Set discs if not get  
up the act

See best selling disc  
What is necessary to get  
Moore to stock up -  
Moore's etc

Sb<sub>2</sub>O<sub>3</sub> insol in NaOH  
but sol in alk, try SbO<sub>2</sub>  
or  $\text{Sb}_2\text{O}_3$  in NaOH  
No metallic appearance, is the only insol salt of  
Sb<sub>2</sub>O<sub>3</sub>?

Amidogenine sol water  
strongly alkaline -  
use of  $\text{CO}_2$  bubbles or  
formic acid

When 2 molecules of  
Boron trioxide + 3 molecules  
lead oxide fused together  
yellow solid mass is made  
which softens in hot oil  
good for sub master of  
dies -

Pb Cy copressed in Kcy  
try battery lead plates  
in KCy

Hydrous  
Cuprous Chloride  
is insol in KOH, try  
as substitute for CuO  
in plates

Hydrous  
Acetyl chloride  
in Helandic -

Hydrous  
Manganate of Barium  
in place CuO in Helandic

To prep by Zn gives black  
powder of metallic Sb used  
to give steel appearance to  
battery tank articles  
Diminished Coat dies

Smith set up 2. Each long  
tubes of various Ni number  
for 3 Oct 10 Hat 4 50 Hat

J. W. Miller ~~colly~~ care yours  
Ni Oct running so high  
on 10 Hat

What is done with all  
Wax master ~~Wax~~

Man (general) to  
save money in plant

Smith ZA4 all  
split tubes long  
Endurance

ZA4 - with most (think)  
split on 50 - put up  
Long Endurance

Lumines - ~~General~~ mag

Positives <sup>film</sup> under hydraulic

Try in NaOH ~~salts~~  
Borates ~~Ammonium~~  
Phosphates ~~to dissolve~~  
more Zinc

Get list of all  
Outside play rolls  
Renegade carb etc  
E Incorp etc

Fuller Not opening

- 1 = Note if flake opening  
= if smooth to strip which  
tube swells - if vent up  
dist. shape =
- 2 Making tube stretched  
to limit cracks
- 3 Chlor. des or too much in  
in small cell & solution
- 4 - perf too big get from old  
cells & compound =
- 5 see if req. test made or  
cut open tubes. How many days
- 6 = see temp. little cells & if  
thermometer -
- 7 see if AMT below  
standard spec

8 = see if changed clean

9 = see old temp rod  
if worn

10 = see if full rods holding  
tubes being loaded and  
worn layer

11 Jump rod worn small

12 = Run test 6 cells 3 day nichel  
132 Or Reg - 6 150

6.175 - to get quick  
results important get  
quick test, 6 with Cobalt in

3 Are pin deposits treated  
Hypochlorite - How size  
changed

14 = Ask Smith if he proposes  
to reassemble the ~~book~~ 4  
batteries run 2 yrs he found  
sediment ~~book~~ in -

15 Get analysis of the sediment  
of the above

16 Get analysis of the electrodes  
used in small ~~cell~~ cells -

17. See if Smith is running  
of previous description  
in little cells -

18 Test the conductivity of nickel  
plating on ~~plates~~

19 Compare burns + half  
cell with new cells -

20 = See how they match  
a set of electrodes -

21 = Ask Smith what becomes  
of chromic ~~cell~~ cells get  
now from ~~book~~ -

22 = Analyze the washed  
green ~~cell~~ use -

23 - Christensen come over  
see if Ruffit account ~~is~~  
put in

24 If the black rough it won't  
melt at each other + Ni  
swells - ~~plate~~ out contact  
with ~~leads~~

25 Take old ~~leads~~ going  
low wash dry of  
split ~~the~~ new contacts  
test on mechanism

26 - Report ~~entire~~ acc  
Run sheet - also was run  
here 2 or 3 times - see  
what was comp'd

Average flake per dump  
July 1913 370  
" 1914 373 -

Should be 4:



7/2 pkt  
over - check rec'd to  
wardens -

Draw up ~~detail~~ test  
room 300/100 ~~etc~~

Put up 2 A4 with 50 cc  
Tin dissolved in Electrolyte

Look up effect of plating  
on new nickel & old  
4 gr Ni - if new not  
hibit, but cells down  
to some other compound

See what we pay Samplen  
Diamond man +

See if a Transat  
Can be bent in  
by shape -



How many plates (strength)  
per day.

of VM, make  $10 \frac{1}{2}$  lbs Fe  
35% Tin in Fe or  
make up 2  $\times 40$ .

Put the old 4 yd in tube  
dipped in  $\text{H}_2\text{O}$  & Cochran  
on 5 Hat & then  
run cold.

Tell VM that any acid  
contn in the No. 11  
will make a run low  
No. 12.

of VM a little Nitro  
in your  $\text{H}_2\text{SO}_4$   
on Red iron will  
run on 5 yd in Hat.

Make 2 pockets Fe alone  
with  $5 \frac{1}{2}$  lbs Fe - run on Fe

Get another batch on Fe

Smith Put Kobalt cells  
on 130 Hat, 10 Run -

Get the press  
way (white) in  
press 4" dia heard  
as possible.

10 000 good records day

80% good to ship -

10 000 Blank + Veneer 725 00

15 white wax 18 45

15 Master Moulds 18 15

30 2nd Master Moulds 36 30

80 White Moulds 96 80

5 Master Labels 23 75

80 Stubs " 22 40

Printer supplies 50 00

990 00

Payroll 1437 00

General for Discs 516 00

Talent 250 00

3193 00

40% General plant 1277 00

4470 00

20% selling 894 00

10 000 daily 5364 00

53.6

97 75% good for labels

Record would be 37 cent.

### Amer Exp

No acct kept of Current  
used to trial low cells

Ferguson only spent  
Emp. as paid - rest are  
helpers \$55. month

find out how many

### Amer Exp

Low cells equalized once month  
Low cells left out & hot up to  
Capacity especially

Never replace undisch. cell  
always made replacements as a  
whole

Low cells caused mainly by  
cracked jars or foreign matter  
gelling in cells

Mainly Salt

Use Tap water

Flush once week -

Depos due to particles material  
falling out of tanks

Ampl. Eley operating

85% load 1 1/2 current for  
Equalizing once month

American Exp Co

42 Cells MY 13

Rated Cap - 189 amp hours new

Actual " 202 "

" 15 months 157 "

30 " 108 "

Average Can Holes day 30

Average Amp H. " 135

Amp h per mile 4 1/2

Replacements made at 53% of  
rated Cap age 30 months  
100% of required or more mileage  
obtained to 1 1/2% of rated  
amp hour Cap new

Cost KW 30

max life w/w dcap 30 months

average life 15 months

17 cell separators Cost 1584

113 " 1008

No labor in this, just cost sep.

Curve shows -

Straight line from

from ~~20~~ 202 To 100

amp - measuring

100 amp in 30 months

Capacity falls

3.4 amp per month

Have 18 # 7000 GV-44 17 MFC

106 # 4000 Baker 42 MFB

6 # 4000 Baker 42 MFB

Replacements made at end 30 months  
av mileage life of battery 25,000

Guaranteed Cycles 600

Cost 44-17 plate \$600

42 13 " 450

Broken jaws average 25% 1/2 year

17 plate jar 125 13 100

Send Motors Co mailed  
order to us for brackets  
by mistake

Price - 44 1/2 plate MV  
4 trays 9 Carbon Flows  
& cells + one blank

\$505. net 30 days

St Paul Bread Co  
Ordered 42 g. MV 405

	30% - 44	4 yrs	Mount	year
A8	21	600	watts	23, 54 282
MV21	21	36	"	33, 38 700
Phila	21	164	"	25, 28, 503
			8	
MV21			30, 30	365
E A 8 1/2 list			19, 89	258
" 20: in round -			18, 27	219
+ allowance for battery -				198
Phila - 6 Remonics -			23, 52	281

60 cells	30% off		50% value		
Edison	watts	Price	MV	watts	Price
A4	10800	567	MV 11	10865	496
A5	13500	709	" 13	13065	576
A6	16200	840	15	15224	657
A8	21600	1130	21	21736	949
A10	27000	1400			
A12	32400	1680			

4 year period  
 MV 11 yearly Cost 216 75  
 A4 141 75

8 year period  
 MV 11 201  
 A4- 121.50

Photo - 21164 watts @ 39¢  
 Renewal 310  
 788 guaranteed 28  
 25 25 month, month -  
 @ Renewal 3 45¢

44

345 - ok

397

453

654

654

4 year period  
 Cost Iron clad 341 MV 11  
 " Edison 567  
 Cost Iron clad 973 MV 13  
 " Edison 709  
 Cost Iron clad 1119 MV 15  
 " Edison 840  
 Cost Iron clad 1603 MV 21  
 " Edison 1130

No Jans

Electric Storage  
Prices F. O. B. Chicago -

Battery Company.  
Walker Vehicle Co.

No. and Type	Amps. Dischg.	Watt Hours Cell	Watt Hours Battery	Weight of Cell	No. Days Battery	Price	Remarks
<b>Ironclad</b> - 1.96 Volt average - 3 1/2 in.							
42. MV 9	28	247	10,374	29 1/4	1329	\$ 195.15	318 watt hour
42. MV 11	35	309	12,978	35 1/4	1491	473.90	3.64
42. MV 13	45	370	15,255	42	1764	520.80	3.53
42. MV 15	49	423	18,123	49	2057	628.00	3.45
42. MV 17	56	494	20,745	55 1/4	2321	743.70	3.57
42. MV 19	63	556	23,328	61 3/4	2594	822.50	3.45
42. MV 21	70	617	25,914	68	2856	902.90	3.50
<b>Hyvac</b> - 1.98 Volt average - 3 1/2 in. Rate - 5 Hour							
42. MV 11	27 1/2	272	10,434	31	1202	\$ 201.25	2.64
42. MV 13	33	327	12,734	36 1/4	1523	340.75	2.50
42. MV 15	38 1/2	381	16,023	42	1764	385.25	2.40
42. MV 17	44	426	18,312	47 1/2	1995	433.70	2.37
42. MV 19	49 1/2	490	20,800	53	2256	476.25	2.31
44. MV 21	55	545	23,980	58 1/4	2574	545.25	2.24
44. MV 23	60 1/2	599	26,526	64	2816	592.15	2.24
44. MV 29	*(77)	*(765)	*(33,528)	*(80)	*(3,520)	761.00	* Estimated
Prices F. O. B. New York to Rausch & Lang							
41 MV 9	28	247	10,127	29 1/4	1210	384.00	Ironclad
Prices to General Motors Truck Co.							
44 MV 19	63	556	24,464	61 1/4	2583	850.00	Ironclad.

own 570

American Exp  
MY 13 450  
MV 17 608

Lowest yet

Battery Prices to Vehicle Manufacturers -  
Ironclad Exide. Average voltage

New York Central Ironclads  
1.96 - 4 1/2 hours discharge

No. and type	Amps dischg.	Watt hrs/cell	Watt hours Battery	Weight cell	Wt Amps Battery	Price	Remarks
<u>Walker Vehicle Co.</u>							
48 MK9	28	247	11,806	29 1/4	1404	\$227.00	f.o.b. factory - #192 resale (Resale price 25% less than 2014)
"	Allowance when replaced by new				Battery	75.84	"
"	Positive and Negative renewal					387.50	"
44MY11	35	309	12,596	35 1/2	1562	485.00	" #246 resale
"	Allowance when replaced by new				Battery	90.64	"
"	Positive and Negative renewal					435.14	"
<u>J. C. Bartlett</u>							
43MY11	35	309	12,978	35%	1491	580.00	* Estimated
<u>Philadelphia Storage Battery Company</u>							
Average Voltage 1.98							
<u>J. C. Bartlett</u>							
42 WT 19	48.6	481	20,202	41%	17,430	380.00	Cost \$500.00 since 7/29/14
"	28 months guarantee, no renewal					300.00	Ret. at original purchase
<u>United States Light &amp; Heating Company</u>							
Average voltage 1.98							
<u>Walker Vehicle Co.</u>							
48 WBT.11	12.5	248	11,904	26%	1260	799.00	f.o.b. N.Y. - 4 yrs maintenance
44 WBT.13	150	297	13,068	30 1/4	1353	879.00	" " " " 2 yrs



Cost of Blank-materials only

100% good	3.54
98	3.61
96	3.68
94	3.76
92	3.84
90	3.93

Cost of Transfer + reverse no labor

100% good	5.80
98	5.92
96	6.04
94	6.16
92	6.30
90	6.44
88	6.59
86	6.74
84	6.90
82	7.07
80	7.25
78	7.43

Transfer continued

76	7.63
74	7.83
72	8.05
70	8.28
68	8.53
66	8.78
64	9.06
62	9.35
60	9.66
58	10.00
56	10.30
54	
52	
50	
48	
46	
44	
42	
40	
38	

Cost of Print + test moulds -

100%	6.80
98	6.94
96	7.08
94	7.23
92	7.40
90	7.55
88	7.72
86	7.90
84	8.09
82	8.29
80	8.50
78	8.72
76	8.94
74	9.19
72	9.44
70	9.61
68	10.00
66	10.30
64	10.62
62	10.96
60	11.33

58	11.72
56	12.14
54	12.59
52	13.07
50	13.60
48	14.16
46	14.78
44	15.45
42	16.18
40	17.00
38	
36	
34	
32	
30	

Direct Material Costs fundamental units

Powder blander	.0354	per disc
Varnish	.0218	"
Transfer Complete	.058	"
8 Submaster blanks	2.0	
2 <sup>nd</sup> Master	2.0	
Celluloid Covering	3512	per blank
Sub + 2 <sup>nd</sup> M blank (celluloid)	5512	
Wax blank formery	1.23	each
Master Mould	1.21	
Working "	1.21	
2 <sup>nd</sup> Master "	1.21	
Label, blank + paper	.0225	"
Master Label Electric	4.75	
Submaster Label Celluloid	0.28	
Paul Exp. 6 mo. Month	\$6981	
Wkg M. 150532 prints 900 moulds		
28 days March	.747	cost

~~Metal Tray 30 Lumps 10 lbs 12 <sup>3</sup>/<sub>4</sub>~~

~~Need by tray ballons sup 6 lbs 1/2~~

2123

100 Cells -

Renewal 4 yr cells	
Grinding	3 74
10% loss rubber pts	7 54
12000 Tubes only	59 99
20% loss Cans	2 64
Labor assembling Ni	1 96
Recovering Ni + flake 2 1/2 c lb	6 10
12000 Fe pockets	16 87
Assembling Fe	3 25
Addition Fe mix	19 07
Recovering Fe 2 1/2 c lb	5 27
Assembling Cells	8 09
Electrolyte	29 00
Doping + forming	14 00

240 of can be  
done for

15% more flake  
part of each cell for

2.22 cell

177.52

28  
205.52

Miller estimate conversion  
old 4 yr NiOH to new NiOH

Material 08494 cents lb  
Labor 01604 lb -  
9198 cents lb

27.069 cents per cell

Calliper Records sent by Moore to the  
dip one edge against the other

004  
014  
009  
007  
015  
003  
033  
018  
003  
014  
010  
019

April 13 -  
Class A Diarr 73 - disc  
Disc Jabben 44 -

Big Ads over whole Co.  
Cost to April 14

\$ 23,121  $\frac{16}{00}$

of which my City

\$ 10,235  $\frac{85}{00}$

Always keep free  
Journal 22% in Vermont  
New lot I wanted  
has 24 1/2% -

Horn	Notes	
Sec	und.	
64		15.6
128		7.8
C <sup>2</sup> 56		3.9
C <sup>4</sup> 512		2 1/2 und.
C <sup>4</sup> 1024		11.25
C <sup>4</sup> 2048		5.62
C <sup>5</sup> 4096		2.81
C <sup>6</sup> 8192		1.40

Jan'y 29<sup>th</sup>  
 Records in Catalogue & Sup 389  
 New Supplement 24  
 Next List 42  
     " Single 14  
 Not matched 8  
 477 - 245 Discs

Sales records disco all prices  
 4 week ending April 5

173014		6836	2 <sup>50</sup>
		2874	3 <sup>00</sup>
111061	#1		
43806	#1.50		
8438	2 <sup>00</sup>		
	%		
#1	64		
	25		
200	4.9		
250	3.9		
300	1.6		

Total list price \$219357  
 \$12617 per record  
 58% off 633. -

Talent on Disco -	Cents
Daily 1500	24
1500	16
2000	12
3000	8
4000	6
5000	4.86
6000	4
7000	3.47
8000	3.
9000	2.70
10000	2.40

Resin 875 lbs	
Phenol 7/40 1000 lbs	72 50
600 lbs 8 3/4 formal	51 00
12 hours labor 200	2 40
	<u>125-90</u>
14.4 Cents pound	

Jungs on hand Dec 5 1913	
Good, not recorded	68 indmbl
" "	94 Sungs-
Rehuted "	27 light sp
Good -	167 light sp.



5000 Records  
has been done on this

Wages		
Transfer + Print men	107	91
Inspection of Records	12	57
Filing in + numbering	11	40
Mould wipers	57	27
Buffing	11	96
Edging	25	37
Grafting	4	50
General expense payroll	72	42
Repair Celluloid prints	15	85
Metal moulds	10	06
XX	12	17
Sorting records on boards	11	35
Grimes Payroll	86	00
Gen'l labor materials supplies	268	00
Grimes supplies	37	56
Celluloid + disc	80	00
Feeling	24	79
Dimwiddie Platers	16	43

\$ 865 22

July 1<sup>st</sup> \$1262.7

Blank + veneers delivered to  
Transfer room costs 11 cents  
Return Value of discs 5 cents

Costs of working moulds  
per record 150 printed  
90 records net is 2.85  
per record,

Blank Costs  
Materials of blank 3.54  
Varnish per 2 plates 2.18  
Varnish costs 11.31 per pound

Blank labor - <sup>7000</sup> daily  
Labor Moulding 1.67 cent  
Labor on Materials 1.37 "  
Steam + water 0.41  
Material 3.54  
Y allow 7.25 6.99

(131)

	Cent
Cost flowing plates (2)	0.7 cent
" Washing " (2)	0.7 "
" Cyanide + KOH (2)	0.27 "
Inspection	0.25
Oven.	0.01
Material among scraping sheet	<u>0.30</u>
pen transfers	2.23 cents
Waste	<u>2.18</u>
	4.41

Wages general supplies outside  
blank and plate flowing -

Cost of Blanks + Wax + material 11 Cent

	Wages	with labor.
2000.	37.40	49.50
2500.	29.95	39.95
3000.	24.91	32.91
3500.	21.38	28.38
4000.	18.70	24.70
4500.	16.66	22.00
5000.	14.96	19.82
5500.	13.61	18.04
6000.	12.64	16.64
6500.	11.48	15.21
7000.	10.68	14.15

147 III 1

May 1914 -

Disc Sales 44  
Class A Dealers 76  
Disc only Dealers 395  
Disc & Cylinder Dealers 1342  
Total Disc Dealers 1737

Cylinder Dealers only 8133

III 23 Disc Sales 45  
Class A 99  
Disc only 439  
Disc & Cy 1391 1930  
Cylinder only 8033

1200

$$\begin{array}{r} 1200 \\ 900 \\ \hline 309 \frac{3}{4} \\ 6 \frac{1}{4} \frac{90}{30} \frac{90}{6} \frac{18}{3} \\ \hline 37 \frac{3}{4} \end{array}$$

Up to June 1 1914 total

A+B #60	3087
A 80	6162
A 150	5950
A 200	5212
A 250	6082

A 275	170
A 290	117
A 300	80
375	76
400	40
425	53
450	49
	<u>27078</u>

	Records	
100	371 981	
150	234 345	
200	55 134	
250	29 920	
300	13 120	
Adv	1 255	<u>705 755</u>

1726 Day

1704 —

780 — 5 hours



Lead but 3rd ave  
425 amp #800  
about 20000  
miles, throw away

---

No 11 Blank  
 500 grams used  
 42 grams scraped  
 left 458 in blank  
 Blank packed  
 without jamming  
 Threw this in +  
 just levelled up  
 with few lumps  
 scraped & straight  
 down again

$$\begin{array}{r}
 2086 \\
 166 \\
 \hline
 1920 \\
 38400 \\
 1920 \\
 \hline
 230400
 \end{array}$$

Blank No 11  
 Call pad

270 275  
 283 287  
 288 286 4088 20  
 292 42 8176  
 1168 490 4088 40 817  
 2920 1168 5960 4088 490  
 1586  
 16688  
 16688 120  
 333 88  
 166 2056  
 1451

Blank

16  
 $\frac{3}{19}$   
 $\frac{7}{72}$

27- 270

320 (6000) 19  
 3000 50,000  
 110000 (22)

267.5

32  
 225  
 450  
 675  
 900

270

No 18

271 42  
 281 62  
 282 82  
 283 102  
 284 122  
 285 142  
 286 162  
 287 182  
 288 202  
 289 222  
 290 242  
 291 262  
 292 282  
 293 302  
 294 322  
 295 342  
 296 362

No 2 print

275

258

268

175 55000 (314)  
 5000  
 175 55000 (314)  
 5000  
 175 55000 (314)  
 5000

No 1 print

588 Analep

304

297

298

300



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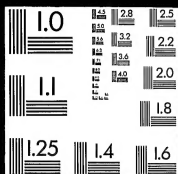


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